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Professional Portal Development with Open Source Tools *Hands-On RESTful Web Services with Go, Second Edition* **API Economy 101 REST API Development with Node.js** *APIs: A Strategy Guide* **Practical API Design** **Advanced API Security** Pro REST API Development with Node.js *The Architecture of Open Source Applications, Volume II* **The Architecture of Open Source Applications** *Pure functional HTTP APIs in Scala* Mastering API Architecture **Cloud Native Microservices with Spring and Kubernetes** Hands-On RESTful API Design **Patterns and Best Practices** *Losing the Cybersecurity War* Mastering ASP.NET Web API *Expert MySQL* **WebGIS for Disaster Management and Emergency Response** RESTful Web APIs Health Informatics on FHIR: How HL7's New API is Transforming Healthcare *Hacking Healthcare* **na Open Source Geospatial Tools** Security Solutions for Hyperconnectivity and the Internet of Things *Building RESTful Web services with Go* **Accelerating Modernization with Agile Integration** **Building REST APIs with Flask** **Synthetic Vision** *Design and Build Great Web APIs* **Designing API-First Enterprise Architectures on Azure** **Java Open Source Programming** Intelligent Distributed Computing VI **Internet Multimedia Communications Using SIP** **Linux Timesaving Techniques For Dummies** Parallel and Distributed Processing *Learning Blazor* *Hands-On RESTful Web Services with Go - Second Edition* **The Semantic Web - ISWC 2010** Integrating Information Technology and

Management for Quality of Care Visualization in Medicine

The Architecture of Open Source Applications, Volume II Feb 21 2022 Architects look at thousands of buildings during their training, and study critiques of those buildings written by masters. In contrast, most software developers only ever get to know a handful of large programs well -- usually programs they wrote themselves -- and never study the great programs of history. As a result, they repeat one another's mistakes rather than building on one another's successes. This second volume of *The Architecture of Open Source Applications* aims to change that. In it, the authors of twenty-four open source applications explain how their software is structured, and why. What are each program's major components? How do they interact? And what did their builders learn during their development? In answering these questions, the contributors to this book provide unique insights into how they think.

RESTful Web APIs Apr 11 2021 The popularity of REST in recent years has led to tremendous growth in almost-RESTful APIs that don't include many of the architecture's benefits. With this practical guide, you'll learn what it takes to design usable REST APIs that evolve over time. By focusing on solutions that cross a variety of domains, this book shows you how to create powerful and secure applications, using the tools designed for the world's most successful distributed computing system: the World Wide Web. You'll explore the concepts behind REST, learn different strategies for creating hypermedia-based APIs, and then put everything together with a step-by-step guide to designing a RESTful Web API. Examine API design strategies, including the collection pattern and pure hypermedia Understand how hypermedia ties representations together into a

coherent API Discover how XMDP and ALPS profile formats can help you meet the Web API "semantic challenge" Learn close to two-dozen standardized hypermedia data formats Apply best practices for using HTTP in API implementations Create Web APIs with the JSON-LD standard and other the Linked Data approaches Understand the CoAP protocol for using REST in embedded systems

Integrating Information Technology and Management for Quality of Care Jul 22 2019 The impact of information technology on the management of healthcare has been enormous in recent years, and it continues to grow in scope and complexity. This book presents papers from the 2014 International Conference on Informatics, Management, and Technology in Healthcare (ICIMTH), held in Athens, Greece, in July 2014. The book includes 79 full papers and 12 poster presentations as well as keynotes, two workshops and three tutorials. Papers are divided into sections including: clinical informatics; decision support and intelligent systems; e-learning and education; health informatics, information management and technology assessment; healthcare IT; mobile technology in healthcare; public health informatics and issues; social and legal issues; and telemedicine. The book will be of interest to all those whose work involves the use of biomedical and health informatics.

Pro REST API Development with Node.js Mar 22 2022 Pro REST API Development with Node.js is your guide to managing and understanding the full capabilities of successful REST development. API design is a hot topic in the programming world, but not many resources exist for developers to really understand how you can leverage the advantages. This book will provide a brief background on REST and the tools it provides (well known and not so well known). Understand how there is more to REST than just JSON and URLs. You will then cover and compare the maintained modules currently available in the npm community, including Express, Restify, Vatican, and Swagger. Finally you will

code an example API from start to finish, using a subset of the tools covered. The Node community is currently flooded with modules; some of them are published once and never updated again - cluttering the entire universe of packages. Pro REST API Development with Node.js shines light into that black hole of modules for the developers trying to create an API. Understand REST API development with Node.js using this book today.

Synthetic Vision Jul 02 2020 In Synthetic Vision: Using Volume Learning and Visual DNA, a holistic model of the human visual system is developed into a working model in C++, informed by the latest neuroscience, DNN, and computer vision research. The author's synthetic visual pathway model includes the eye, LGN, visual cortex, and the high level PFC learning centers. The corresponding visual genome model (VGM), begun in 2014, is introduced herein as the basis for a visual genome project analogous to the Human Genome Project funded by the US government. The VGM introduces volume learning principles and Visual DNA (VDNA) taking a multivariate approach beyond deep neural networks. Volume learning is modeled as programmable learning and reasoning agents, providing rich methods for structured agent classification networks. Volume learning incorporates a massive volume of multivariate features in various data space projections, collected into strands of Visual DNA, analogous to human DNA genes. VGM lays a foundation for a visual genome project to sequence VDNA as visual genomes in a public database, using collaborative research to move synthetic vision science forward and enable new applications. Bibliographical references are provided to key neuroscience, computer vision, and deep learning research, which form the basis for the biologically plausible VGM model and the synthetic visual pathway. The book also includes graphical illustrations and C++ API reference materials to enable VGM application programming. Open source code licenses are available for engineers and scientists. Scott Krig founded Krig

Research to provide some of the world's first vision and imaging systems worldwide for military, industry, government, and academic use. Krig has worked for major corporations and startups in the areas of machine learning, computer vision, imaging, graphics, robotics and automation, computer security and cryptography. He has authored international patents in the areas of computer architecture, communications, computer security, digital imaging, and computer vision, and studied at Stanford. Scott Krig is the author of the English/Chinese Springer book *Computer Vision Metrics, Survey, Taxonomy and Analysis of Computer Vision, Visual Neuroscience, and Deep Learning*, Textbook Edition, as well as other books, articles, and papers.

Building RESTful Web services with Go Oct 05 2020 Explore the necessary concepts of REST API development by building few real world services from scratch. About This Book Follow best practices and explore techniques such as clustering and caching to achieve a reactive, scalable web service Leverage the Gin Framework to quickly implement RESTful endpoints Learn to implement a client library for a RESTful web service using Go Who This Book Is For This book is intended for those who want to learn to build RESTful web services with a framework like Gin. To make best use of the code samples included in the book, you should have a basic knowledge of Go programming. What You Will Learn Create HTTP handler and introspect the Gorilla Mux router OAuth 2 implementation with Go Build RESTful API with Gin Framework Create REST API with MongoDB and Go Build a working client library and unit test for REST API Debug, test, and profile RESTful APIs with each of the frameworks Optimize and scale REST API using microservices In Detail REST is an architectural style that tackles the challenges of building scalable web services and in today's connected world, APIs have taken a central role on the web. APIs provide the fabric through which systems interact, and REST has become synonymous with APIs. The depth, breadth, and ease of use

of Go, makes it a breeze for developers to work with it to build robust Web APIs. This book takes you through the design of RESTful web services and leverages a framework like Gin to implement these services. The book starts with a brief introduction to REST API development and how it transformed the modern web. You will learn how to handle routing and authentication of web services along with working with middleware for internal service. The book explains how to use Go frameworks to build RESTful web services and work with MongoDB to create REST API. You will learn how to integrate Postgres SQL and JSON with a Go web service and build a client library in Go for consuming REST API. You will learn how to scale APIs using the microservice architecture and deploy the REST APIs using Nginx as a proxy server. Finally you will learn how to metricize a REST API using an API Gateway. By the end of the book you will be proficient in building RESTful APIs in Go. Style and Approach This book is a step-by-step, hands-on guide to designing and building RESTful web services.

Hands-On RESTful Web Services with Go, Second Edition Sep 28 2022

Learning Blazor Oct 25 2019 Take advantage of your C# skills to build UI components and client-side experiences with .NET. With this practical guide, you'll learn how to use Blazor WebAssembly to develop next-generation web experiences. Built on top of ASP.NET Core, Blazor represents the future of .NET single-page application investments. Author David Pine, who focuses on .NET and Azure content development at Microsoft, explains how WebAssembly enables many non-JavaScript-based programming languages to run on the client browser. In this book, you'll learn about real-time web functionality with ASP.NET Core SignalR and discover strategies for bidirectional JavaScript interop. David also covers component data binding, hierarchical event-driven communications, in-memory state management, and local storage. This book shows you how to: Create a beautiful,

feature-rich Blazor app Develop and localize an enterprise-scale app using GitHub Actions and Azure Cognitive Services Translator Create advanced validation scenarios for input-based components with forms Automatically deploy and host to Azure Static Web Apps, and rely on HTTP services Use a geolocation service and speech synthesis and recognition native to the browser Author a custom modal verification mechanism for validating a user

na Jan 08 2021

Practical API Design May 24 2022 You might think more than enough design books exist in the programming world already. In fact, there are so many that it makes sense to ask why you would read yet another. Is there really a need for yet another design book? In fact, there is a greater need than ever before, and *Practical API Design: Confessions of a Java Framework Architect* fills that need! Teaches you how to write an API that will stand the test of time Written by the designer of the NetBeans API at Sun Technologies Based on best practices, scalability, and API design patterns

Accelerating Modernization with Agile Integration Sep 04 2020 The organization pursuing digital transformation must embrace new ways to use and deploy integration technologies, so they can move quickly in a manner appropriate to the goals of multicloud, decentralization, and microservices. The integration layer must transform to allow organizations to move boldly in building new customer experiences, rather than forcing models for architecture and development that pull away from maximizing the organization's productivity. Many organizations have started embracing agile application techniques, such as microservice architecture, and are now seeing the benefits of that shift. This approach complements and accelerates an enterprise's API strategy. Businesses should also seek to use this approach to modernize their existing integration and messaging infrastructure to achieve more effective ways to manage and operate their integration

services in their private or public cloud. This IBM® Redbooks® publication explores the merits of what we refer to as agile integration; a container-based, decentralized, and microservice-aligned approach for integration solutions that meets the demands of agility, scalability, and resilience required by digital transformation. It also discusses how the IBM Cloud Pak for Integration marks a significant leap forward in integration technology by embracing both a cloud-native approach and container technology to achieve the goals of agile integration. The target audiences for this book are cloud integration architects, IT specialists, and application developers.

Visualization in Medicine Jun 20 2019 Visualization in Medicine is the first book on visualization and its application to problems in medical diagnosis, education, and treatment. The book describes the algorithms, the applications and their validation (how reliable are the results?), and the clinical evaluation of the applications (are the techniques useful?). It discusses visualization techniques from research literature as well as the compromises required to solve practical clinical problems. The book covers image acquisition, image analysis, and interaction techniques designed to explore and analyze the data. The final chapter shows how visualization is used for planning liver surgery, one of the most demanding surgical disciplines. The book is based on several years of the authors' teaching and research experience. Both authors have initiated and lead a variety of interdisciplinary projects involving computer scientists and medical doctors, primarily radiologists and surgeons. * A core field of visualization and graphics missing a dedicated book until now * Written by pioneers in the field and illustrated in full color * Covers theory as well as practice

Losing the Cybersecurity War Aug 15 2021 This book explains the five pillars or battlefields of cybersecurity and how a Zero Trust approach can change the advantage on each battlefield. We have taken a deep dive into each of five battlefields where we have a decided disadvantage due to

constitutional structure and moral behavioral guidelines, where we provide examples of how we got here, what we can do about it, why we got here, and how we can avoid these traps in the future. This is a unique viewpoint that has never been explored - the five battlefields include Economics, Technology, Information, Education, and Leadership - and how each has contributed to our current disadvantage on the global stage. We go on to discuss how Zero Trust can change the game to create an advantage for us going forward. The credibility of Zero Trust stems directly from the father of Zero Trust, John Kindervag, who says, "And now, Steve has written a new book on Zero Trust called Losing the Cybersecurity War: And What We Can Do to Stop It. It is undeniably the best Zero Trust book yet written. While other writers have focused on implementing Zero Trust from their perspectives, Steve focuses on why Zero Trust is so important on the modern cybersecurity battlefield. His concept of the five cyber battlefields is a great insight that will help us win the cyberwar. By weaving Zero Trust principles throughout these five concepts, Steve demonstrates how the ideas and efforts involved in building Zero Trust environments will lead to a profound shift in terrain advantage. No longer will attackers own the high ground. As defenders and protectors, we can leverage modern technology in a Zero Trust way to keep our data and assets safe from infiltration and exploitation." Steve King is the Managing Director; CyberTheory and Founder/Executive Director, CyberEd.io; cybersecurity Expert certified CISM and CISSP. He has 20 years' experience in cybersecurity markets as CISO, CEO, and CMO; he is a Cybersecurity Technology Product and Services Sector founder and innovator; Digital Branding and Ad Agency founder, and his clients have included Starbucks, Matson, Abercrombie & Fitch, Harley Davidson, Lucky Brand, United Airlines, and Nike. He is a 3x Cybersecurity Start-up Founder and Exec, he has raised \$40 million in VC, and he possesses multiple patents. Kiren Chaudry is the product manager

for CyberEd.io, the leading platform for cybersecurity education.

Linux Timesaving Techniques For Dummies Dec 27 2019 Formerly known as Red Hat Linux, the Fedora Core distribution is an excellent, no-cost alternative to Windows, Solaris, and other expensive operating systems Red Hat currently controls an estimated seventy percent of the Linux market in the U.S. This book gives experienced and first-time Fedora users sixty concise, step-by-step, timesaving techniques to help them perform tasks with Fedora more efficiently Organized by topic, the techniques are presented in the friendly, easy-to-understand For Dummies style, with a minimum of technical jargon The techniques run the gamut of end-user, system administration, and development tasks, ranging from desktop, file system, RPM, and database tips to Internet server, e-mail server, networking, system monitoring, security, and Linux kernel tricks Covers the latest release of Red Hat's Fedora Core distribution

Mastering API Architecture Nov 18 2021 Most organizations with a web presence build and operate APIs; the doorway for customers to interact with the company's services. Designing, building, and managing these critical programs affect everyone in the organization, from engineers and product owners to C-suite executives. But the real challenge for developers and solution architects is creating an API platform from the ground up. With this practical book, you'll learn strategies for building and testing REST APIs that use API gateways to combine offerings at the microservice level. Authors James Gough, Daniel Bryant, and Matthew Auburn demonstrate how simple additions to this infrastructure can help engineers and organizations migrate to the cloud; and open the opportunity to connect internal services using technologies like a service mesh. Learn API fundamentals and architectural patterns for building an API platform Use practical examples to understand how to design, build, and test API-based systems Deploy, operate, and configure key components of an API

platform Use API gateways and service meshes appropriately, based on case studies Understand core security and common vulnerabilities in API architecture Secure data and APIs using threat modeling and technologies like OAuth2 and TLS Learn how to evolve existing systems toward API- and cloud-based architectures

Cloud Native Microservices with Spring and Kubernetes Oct 17 2021 Build and deploy scalable cloud native microservices using the Spring framework and Kubernetes. KEY FEATURES ●

Complete coverage on how to design, build, run, and deploy modern cloud native microservices. ● Includes numerous sample code exercises on microservices, Spring and Kubernetes. ● Develop a stronghold on Kubernetes, Spring, and the microservices architecture. ● Complete guide of application containerization on Kubernetes containers. ● Coverage on managing modern applications and infrastructure using observability tools. DESCRIPTION The main objective of this book is to give an overview of cloud native microservices, their architecture, design patterns, best practices, real use cases and practical coverage of modern applications. This book covers a strong understanding of the fundamentals of microservices, API first approach, Testing, observability, API Gateway, Service Mesh and Kubernetes alternatives of Spring Cloud. This book covers the implementation of various design patterns of developing cloud native microservices using Spring framework docker and Kubernetes libraries. It covers containerization concepts and hands-on lab exercises like how to build, run and manage microservices applications using Kubernetes. After reading this book, the readers will have a holistic understanding of building, running, and managing cloud native microservices applications on Kubernetes containers. WHAT YOU WILL LEARN ● Learn fundamentals of microservice and design patterns. ● Learn microservices development using Spring Boot and Kubernetes. ● Learn to develop reactive, event-driven, and batch microservices. ●

Perform end-to-end microservices testing using Cucumber. ● Implement API gateway, authentication & authorization, load balancing, caching, rate limiting. ● Learn observability and monitoring techniques of microservices. WHO THIS BOOK IS FOR This book is for the Spring Developers, Microservice Developers, Cloud Engineers, DevOps Consultants, Technical Architect and Solution Architects, who have some familiarity with application development, Docker and Kubernetes containers. TABLE OF CONTENTS 1. Overview of Cloud Native microservices 2. Microservice design patterns 3. API first approach 4. Build microservices using the Spring Framework 5. Batch microservices 6. Build reactive and event-driven microservices 7. The API gateway, security, and distributed caching with Redis 8. Microservices testing and API mocking 9. Microservices observability 10. Containers and Kubernetes overview and architecture 11. Run microservices on Kubernetes 12. Service Mesh and Kubernetes alternatives of Spring Cloud

Building REST APIs with Flask Aug 03 2020 Develop RESTful web services using the Flask micro-framework and integrate them using MySQL. Use Flask to develop, deploy, and manage REST APIs with easy-to-read and understand Python code. Solve your problem from a choice of libraries. Learn to use MySQL as the web services database for your Flask API using SQLAlchemy ORM. Building REST APIs with Flask provides a primer on Flask, RESTful services, and working with pip to set up your virtual environment. The key differences between NoSQL and SQL are covered, and you are taught how to connect MySQL and Flask using SQLAlchemy. Author Kunal Relan presents best practices for creating REST APIs and guides you in structuring your app and testing REST endpoints. He teaches you how to set up authentication and render HTML using views. You learn how to write unit tests for your REST APIs, and understand mocks, assertions, and integration testing. You will know how to document your REST APIs, deploy your Flask application on all of the

major cloud platforms, and debug and monitor your Flask application. What You'll Learn Use MySQL to create Flask REST APIs Test REST endpoints Create CRUD endpoints with Flask and MySQL Deploy Flask on all of the major cloud platforms Monitor your Flask application Who This Book Is For Python developers interested in REST API development using Flask and web developers with basic programming knowledge who want to learn how Python and REST APIs work together.

Readers should be familiar with Python (command line, or at least pip) and MySQL.

Hands-On RESTful API Design Patterns and Best Practices Sep 16 2021 REST architecture (style) is a pivot of distributed systems, simplify data integration amongst modern and legacy applications leverages through the RESTful paradigm. This book is fully loaded with many RESTful API patterns, samples, hands-on implementations and also discuss the capabilities of many REST API frameworks for Java, Scala, Python and Go

Pure functional HTTP APIs in Scala Dec 19 2021 This book is intended for the intermediate Scala programmer who is interested in functional programming and works mainly on the web service backend side. Ideally she has experience with libraries like Akka HTTP and Slick which are in heavy use in that area. However maybe you have wondered if we can't do better even though aforementioned projects are battle tested and proven. The answer to this can be found in this book which is intended to be read from cover to cover in the given order. Within the book the following libraries will be used: Cats, Cats Effect, http4s, Doobie, Refined, fs2, tapir, Monocle and probably others. ;-) This edition includes a chapter about migrating the project to Scala 3. Which includes all the nasty issues that we tend to run into if we touch code after a longer time. Code and book source can be found in the author's github account.

Expert MySQL Jun 13 2021 MySQL remains one of the hottest open source database technologies.

As the database has evolved into a product competitive with proprietary counterparts like Oracle and IBM DB2, MySQL has found favor with large scale corporate users who require high-powered features and performance. Expert MySQL is the first book to delve deep into the MySQL architecture, showing users how to make the most of the database through creation of custom storage handlers, optimization of MySQL's query execution, and use of the embedded server product. This book will interest users deploying MySQL in high-traffic environments and in situations requiring minimal resource allocation.

API Economy 101 Aug 27 2022 API is technology and digital product used for artificial intelligence, platform economy, and internet. It has the capability to change business models dramatically. APIs (application programming interfaces) are becoming a major competitive factor for companies. This book takes on the fundamental questions of API Economy and approaches the subject pragmatically and clearly without technical jargon. The book clarifies the birth and shape of the API Economy with numerous practical examples. This is the first API Economy book based on scientific references. Originally this popular book was written in Finnish. It is a great start for students and advanced professionals alike. After reading this book, you will understand what it is all about and how to move forward and grow your business with APIs. The authors are leading Finnish API-experts with an abundance of experience from API and platform economy as authors, researchers, and lecturers and consultants.

Hands-On RESTful Web Services with Go - Second Edition Sep 23 2019 Design production-ready, testable, and maintainable RESTful web services for the modern web that scale easily Key Features Employ a combination of custom and open source solutions for application program interface (API) development Discover asynchronous API and API security patterns and learn how to deploy your

web services to the cloud Apply design patterns and techniques to build reactive and scalable web services Book Description Building RESTful web services can be tough as there are countless standards and ways to develop API. In modern architectures such as microservices, RESTful APIs are common in communication, making idiomatic and scalable API development crucial. This book covers basic through to advanced API development concepts and supporting tools. You'll start with an introduction to REST API development before moving on to building the essential blocks for working with Go. You'll explore routers, middleware, and available open source web development solutions in Go to create robust APIs, and understand the application and database layers to build RESTful web services. You'll learn various data formats like protocol buffers and JSON, and understand how to serve them over HTTP and gRPC. After covering advanced topics such as asynchronous API design and GraphQL for building scalable web services, you'll discover how microservices can benefit from REST. You'll also explore packaging artifacts in the form of containers and understand how to set up an ideal deployment ecosystem for web services. Finally, you'll cover the provisioning of infrastructure using infrastructure as code (IaC) and secure your REST API. By the end of the book, you'll have intermediate knowledge of web service development and be able to apply the skills you've learned in a practical way. What you will learn Explore the fundamentals of API development and web services Understand the various building blocks of API development in Go Use superior open source solutions for representational state transfer (REST) API development Scale a service using microservices and asynchronous design patterns Deliver containerized artifacts to the Amazon Web Services (AWS) Cloud Get to grips with API security and its implementation Who this book is for This book is for all the Go developers who are comfortable with the language and seeking to learn REST API development. Even senior engineers can enjoy this

book, as it discusses many cutting-edge concepts, such as building microser...

Design and Build Great Web APIs Jun 01 2020 APIs are transforming the business world at an increasing pace. Gain the essential skills needed to quickly design, build, and deploy quality web APIs that are robust, reliable, and resilient. Go from initial design through prototyping and implementation to deployment of mission-critical APIs for your organization. Test, secure, and deploy your API with confidence and avoid the "release into production" panic. Tackle just about any API challenge with more than a dozen open-source utilities and common programming patterns you can apply right away. Good API design means starting with the API-First principle - understanding who is using the API and what they want to do with it - and applying basic design skills to match customers' needs while solving business-critical problems. Use the Sketch-Design-Build method to create reliable and scalable web APIs quickly and easily without a lot of risk to the day-to-day business operations. Create clear sequence diagrams, accurate specifications, and machine-readable API descriptions all reviewed, tested, and ready to turn into fully-functional NodeJS code. Create reliable test collections with Postman and implement proper identity and access control security with AuthO-without added cost or risk to the company. Deploy all of this to Heroku using a continuous delivery approach that pushes secure, well-tested code to your public servers ready for use by both internal and external developers. From design to code to test to deployment, unlock hidden business value and release stable and scalable web APIs that meet customer needs and solve important business problems in a consistent and reliable manner.

APIs: A Strategy Guide Jun 25 2022 Programmers used to be the only people excited about APIs, but now a growing number of companies see them as a hot new product channel. This concise guide describes the tremendous business potential of APIs, and demonstrates how you can use them to

provide valuable services to clients, partners, or the public via the Internet. You'll learn all the steps necessary for building a cohesive API business strategy from experts in the trenches. Facebook and Twitter APIs continue to be extremely successful, and many other companies find that API demand greatly exceeds website traffic. This book offers executives, business development teams, and other key players a complete roadmap for creating a viable API product. Learn about the rise of APIs and why your business might need one Understand the roles of asset owners, providers, and developers in the API value chain Build strategies for designing, implementing, and marketing your product Devise an effective process for security and user management Address legal issues, such as rights management and terms of use Manage traffic and user experience with a reliable operating model Determine the metrics you need to measure your API's success

Java Open Source Programming Mar 30 2020 Discover how to develop full-scale J2EE™ applications quickly and efficiently using the best Open Source tools Written by leading authorities in the field, this book shows you how to leverage a suite of best-of-breed Open Source development tools to take the pain out of J2EE and build a complete Web-based application. You'll combine these tools to actually reduce the points of failure in your application, while increasing overall system stability and robustness. Along with the tools introduced here, you'll develop the PetSoar application, which follows the PetStore application used by Sun Microsystems to demonstrate features of J2EE. With PetSoar, the authors focus on developing a maintainable and flexible application, rather than showcasing the end result, so that you can apply the material in your own projects. In addition, the authors provide methods for utilizing Open Source software components for each stage of the development process. The Open Source products covered include: * Hibernate to aid with simple, flexible, and speedy transparent object persistence * OpenSymphony WebWork to

allow for pluggable view technologies and extensible configuration * JUnit and Mock Objects to assist with rapid and robust unit testing * XDoclet to assist with generating code and configuration files automatically * Jakarta Lucene to add Google-style smart search capabilities to data stores * OpenSymphony SiteMesh to aid in the creation of large sites with a common look and feel * OpenSymphony OSCache to easily cache slow dynamic sections of Web sites resulting in faster-loading pages

Open Source Geospatial Tools Dec 07 2020 This book focuses on the use of open source software for geospatial analysis. It demonstrates the effectiveness of the command line interface for handling both vector, raster and 3D geospatial data. Appropriate open-source tools for data processing are clearly explained and discusses how they can be used to solve everyday tasks. A series of fully worked case studies are presented including vector spatial analysis, remote sensing data analysis, landcover classification and LiDAR processing. A hands-on introduction to the application programming interface (API) of GDAL/OGR in Python/C++ is provided for readers who want to extend existing tools and/or develop their own software.

Security Solutions for Hyperconnectivity and the Internet of Things Nov 06 2020 The Internet of Things describes a world in which smart technologies enable objects with a network to communicate with each other and interface with humans effortlessly. This connected world of convenience and technology does not come without its drawbacks, as interconnectivity implies hackability. Security Solutions for Hyperconnectivity and the Internet of Things offers insights from cutting-edge research about the strategies and techniques that can be implemented to protect against cyber-attacks. Calling for revolutionary protection strategies to reassess security, this book is an essential resource for programmers, engineers, business professionals, researchers, and advanced students in

relevant fields.

The Architecture of Open Source Applications Jan 20 2022 Beschrijving van vijftientig open source applicaties.

Internet Multimedia Communications Using SIP Jan 28 2020 Session Initiation Protocol (SIP) was conceived in 1996 as a signaling protocol for inviting users to multimedia conferences. With this development, the next big Internet revolution silently started. That was the revolution which would end up converting the Internet into a total communication system which would allow people to talk to each other, see each other, work collaboratively or send messages in real time. Internet telephony and, in general, Internet multimedia, is the new revolution today and SIP is the key protocol which allows this revolution to grow. The book explains, in tutorial fashion, the underlying technologies that enable real-time IP multimedia communication services in the Internet (voice, video, presence, instant messaging, online picture sharing, white-boarding, etc). Focus is on session initiation protocol (SIP) but also covers session description protocol (SDP), Real-time transport protocol (RTP), and message session relay protocol (MSRP). In addition, it will also touch on other application-related protocols and refer to the latest research work in IETF and 3GPP about these topics. (3GPP stands for "third-generation partnership project" which is a collaboration agreement between ETSI (Europe), ARIB/TTC (Japan), CCSA (China), ATIS (North America) and TTA (South Korea).) The book includes discussion of leading edge theory (which is key to really understanding the technology) accompanied by Java examples that illustrate the theoretical concepts. Throughout the book, in addition to the code snippets, the reader is guided to build a simple but functional IP soft-phone therefore demonstrating the theory with practical examples. This book covers IP multimedia from both a theoretical and practical point of view focusing on letting the reader understand the concepts

and put them into practice using Java. It includes lots of drawings, protocol diagrams, UML sequence diagrams and code snippets that allow the reader to rapidly understand the concepts. Focus on HOW multimedia communications over the Internet works to allow readers to really understand and implement the technology Explains how SIP works, including many programming examples so the reader can understand abstract concepts like SIP dialogs, SIP transactions, etc. It is not focused on just VoIP. It looks At a wide array of enhanced communication services related to SIP enabling the reader put this technology into practice. Includes nearly 100 references to the latest standards and working group activities in the IETF, bringing the reader completely up to date. Provides a step-by-step tutorial on how to build a basic, though functional, IP soft-phone allowing the reader to put concepts into practice. For advanced readers, the book also explains how to build a SIP proxy and a SIP registrar to enhance one's expertise and marketability in this fast moving area.

The Semantic Web - ISWC 2010 Aug 23 2019 The two-volume set LNCS 6496 and 6497 constitutes the refereed proceedings of the 9th International Semantic Web Conference, ISWC 2010, held in Shanghai, China, during November 7-11, 2010. Part I contains 51 papers out of 578 submissions to the research track. Part II contains 18 papers out of 66 submissions to the semantic Web in-use track, 6 papers out of 26 submissions to the doctoral consortium track, and also 4 invited talks. Each submitted paper were carefully reviewed. The International Semantic Web Conferences (ISWC) constitute the major international venue where the latest research results and technical innovations on all aspects of the Semantic Web are presented. ISWC brings together researchers, practitioners, and users from the areas of artificial intelligence, databases, social networks, distributed computing, Web engineering, information systems, natural language processing, soft computing, and human computer interaction to discuss the major challenges and proposed solutions,

the success stories and failures, as well the visions that can advance research and drive innovation in the Semantic Web.

Intelligent Distributed Computing VI Feb 27 2020 This book represents the combined peer-reviewed proceedings of the Sixth International Symposium on Intelligent Distributed Computing -- IDC~2012, of the International Workshop on Agents for Cloud -- A4C~2012 and of the Fourth International Workshop on Multi-Agent Systems Technology and Semantics -- MASTS~2012. All the events were held in Calabria, Italy during September 24-26, 2012. The 37 contributions published in this book address many topics related to theory and applications of intelligent distributed computing and multi-agent systems, including: adaptive and autonomous distributed systems, agent programming, ambient assisted living systems, business process modeling and verification, cloud computing, coalition formation, decision support systems, distributed optimization and constraint satisfaction, gesture recognition, intelligent energy management in WSNs, intelligent logistics, machine learning, mobile agents, parallel and distributed computational intelligence, parallel evolutionary computing, trust metrics and security, scheduling in distributed heterogeneous computing environments, semantic Web service composition, social simulation, and software agents for WSNs.

Health Informatics on FHIR: How HL7's New API is Transforming Healthcare Mar 10 2021 This textbook begins with an introduction to the US healthcare delivery system, its many systemic challenges and the prior efforts to develop and deploy informatics tools to help overcome those problems. It goes on to discuss health informatics from an historical perspective, its current state and its likely future state now that electronic health record systems are widely deployed, the HL7 Fast Healthcare Interoperability standard is being rapidly accepted as the means to access the data

stored in those systems and analytics is increasing being used to gain new knowledge from that aggregated clinical data. It then turns to some of the important and evolving areas of informatics including population and public health, mHealth and big data and analytics. Use cases and case studies are used in all of these discussions to help readers connect the technologies to real world challenges. Effective use of informatics systems and tools by providers and their patients is key to improving the quality, safety and cost of healthcare. With health records now digital, no effective means has existed for sharing them with patients, among the multiple providers who may care for them and for important secondary uses such as public/population health and research. This problem is a topic of congressional discussion and is addressed by the 21st Century Cures Act of 2016 that mandates that electronic health record (EHR) systems offer a patient-facing API. HL7's Fast Healthcare Interoperability Resources (FHIR) is that API and this is the first comprehensive treatment of the technology and the many ways it is already being used. FHIR is based on web technologies and is thus a far more facile, easy to implement approach that is rapidly gaining acceptance. It is also the basis for a 'universal health app platform' that literally has the potential to foster innovation around the data in patient records similar to the app ecosystems smartphones created around the data they store. FHIR app stores have already been opened by Epic and Cerner, the two largest enterprise EHR vendors. Provider facing apps are already being explored to improve EHR usability and support personalized medicine. Medicare and the Veteran's Administration have announced FHIR app platforms for their patients. Apple's new IOS 11.3 features the ability for consumers to aggregate their health records on their iPhone using FHIR. Health insurance companies are exploring applications of FHIR to improve service and communication with their providers and patients. SureScripts, the national e-Prescribing network, is using FHIR to help

doctors know if their patients are complying with prescriptions. This textbook is for introductory health informatics courses for computer science and health sciences students (e.g. doctors, nurses, PhDs), the current health informatics community, IT professionals interested in learning about the field and practicing healthcare providers. Though this textbook covers an important new technology, it is accessible to non-technical readers including healthcare providers, their patients or anyone interested in the use of healthcare data for improved care, public/population health or research.

Hacking Healthcare Feb 09 2021 Ready to take your IT skills to the healthcare industry? This concise book provides a candid assessment of the US healthcare system as it ramps up its use of electronic health records (EHRs) and other forms of IT to comply with the government's Meaningful Use requirements. It's a tremendous opportunity for tens of thousands of IT professionals, but it's also a huge challenge: the program requires a complete makeover of archaic records systems, workflows, and other practices now in place. This book points out how hospitals and doctors' offices differ from other organizations that use IT, and explains what's necessary to bridge the gap between clinicians and IT staff. Get an overview of EHRs and the differences among medical settings Learn the variety of ways institutions deal with patients and medical staff, and how workflows vary Discover healthcare's dependence on paper records, and the problems involved in migrating them to digital documents Understand how providers charge for care, and how they get paid Explore how patients can use EHRs to participate in their own care Examine healthcare's most pressing problem—avoidable errors—and how EHRs can both help and exacerbate it

Mastering ASP.NET Web API Jul 14 2021 Leverage ASP.Net Web API to build professional web services and create powerful applications. About This Book Get a comprehensive analysis of the latest specification of ASP.NET Core and all the changes to the underlying platform that you need to

know to make the most of the web API See an advanced coverage of ASP.NET Core Web API to create robust models for your data, create controllers, and handle routing and security This book is packed with key theoretical and practical concepts that can be instantly applied to build professional applications using API with Angular 4, Ionic, and React Who This Book Is For This book is for .Net developers who wants to Master ASP.NET Core (Web API) and have played around with previous ASP.NET Web API a little, but don't have in-depth knowledge of it. You need to know Visual Studio and C#, and have some HTML, CSS, and JavaScript knowledge. What You Will Learn Acquire conceptual and hands-on knowledge of ASP.NET Core (MVC & Web API) Learn about HTTP methods, the structure of HTTP content, internet media types, and how servers respond to HTTP requests and their associated HTTP codes Explore middleware, filters, routing, and unit testing Optimize Web API implementations Develop a secure Web API interface Deploy Web API projects to various platforms Consume your web API in front end application based on Angular 4, Bootstrap, and Ionic Implement and explore the current trends in service architecture In Detail Microsoft has unified their main web development platforms. This unification will help develop web applications using various pieces of the ASP.NET platform that can be deployed on both Windows and LINUX. With ASP.NET Core (Web API), it will become easier than ever to build secure HTTP services that can be used from any client. Mastering ASP.NET Web API starts with the building blocks of the ASP.NET Core, then gradually moves on to implementing various HTTP routing strategies in the Web API. We then focus on the key components of building applications that employ the Web API, such as Kestrel, Middleware, Filters, Logging, Security, and Entity Framework. Readers will be introduced to take the TDD approach to write test cases along with the new Visual Studio 2017 live unit testing feature. They will also be introduced to integrate with the database using ORMs. Finally,

we explore how the Web API can be consumed in a browser as well as by mobile applications by utilizing Angular 4, Ionic and ReactJS. By the end of this book, you will be able to apply best practices to develop complex Web API, consume them in frontend applications and deploy these applications to a modern hosting infrastructure. Style and approach Using a hands-on approach, we cover both the conceptual as well as the technical aspects of the ASP.NET Core (Web API) framework.

Designing API-First Enterprise Architectures on Azure Apr 30 2020 Innovate at scale through well-architected API-led products that drive personalized, predictive, and adaptive customer experiences Key Features Strategize your IT investments by modeling enterprise solutions with an API-centric approach Build robust and reliable API platforms to boost business agility and omnichannel delivery Create digital value chains through the productization of your APIs Book Description API-centric architectures are foundational to delivering omnichannel experiences for an enterprise. With this book, developers will learn techniques to design loosely coupled, cloud-based, business-tier interfaces that can be consumed by a variety of client applications. Using real-world examples and case studies, the book helps you get to grips with the cloudbased design and implementation of reliable and resilient API-centric solutions. Starting with the evolution of enterprise applications, you'll learn how API-based integration architectures drive digital transformation. You'll then learn about the important principles and practices that apply to cloud-based API architectures and advance to exploring the different architecture styles and their implementation in Azure. This book is written from a practitioner's point of view, so you'll discover ideas and practices that have worked successfully in various customer scenarios. By the end of this book, you'll be able to architect, design, deploy, and monetize your API solutions in the Azure cloud

while implementing best practices and industry standards. What you will learn

Explore the benefits of API-led architecture in an enterprise

Build highly reliable and resilient, cloud-based, API-centric solutions

Plan technical initiatives based on Well-Architected Framework principles

Get to grips with the productization and management of your API assets for value creation

Design high-scale enterprise integration platforms on the Azure cloud

Study the important principles and practices that apply to cloud-based API architectures

Who this book is for This book is for solution architects, developers, engineers, DevOps professionals, and IT decision-makers who are responsible for designing and developing large distributed systems. Familiarity with enterprise solution architectures and cloud-based design will help you to comprehend the concepts covered in the book easily.

WebGIS for Disaster Management and Emergency Response May 12 2021 This book aims to help students, researchers and policy makers understand the latest research and development trends in the application of WebGIS for Disaster Management and Emergency Response. It is designed as a useful tool to better assess the mechanisms for planning, response and mitigation of the impact of disaster scenarios at the local, regional or national levels. It contains details on how to use WebGIS to solve real-world problems associated with Disaster Management Scenarios for the long-term sustainability. The book broadens the reader understanding of the policy and decision-making issues related to Disaster Management response and planning.

Professional Portal Development with Open Source Tools Oct 29 2022 What is this book about? Open source technology enables you to build customized enterprise portal frameworks with more flexibility and fewer limitations. This book explains the fundamentals of a powerful set of open source tools and shows you how to use them. An outstanding team of authors provides a complete

tutorial and reference guide to Java Portlet API, Lucene, James, and Slide, taking you step-by-step through constructing and deploying portal applications. You trace the anatomy of a search engine and understand the Lucene query syntax, set up Apache James configuration for a variety of servers, explore object to relational mapping concepts with Jakarta OJB, and acquire many other skills necessary to create J2EE portals uniquely suited to the needs of your organization. Loaded with code-intensive examples of portal applications, this book offers you the know-how to free your development process from the restrictions of pre-packaged solutions. What does this book cover? Here's what you will learn in this book: How to evaluate business requirements and plan the portal How to develop an effective browser environment How to provide a search engine, messaging, database inquiry, and content management services in an integrated portal application How to develop Web services for the portal How to monitor, test, and administer the portal How to create portlet applications compliant with the Java Portlet API How to reduce the possibility of errors while managing the portal to accommodate change How to plan for the next generation application portal Who is this book for? This book is for professional Java developers who have some experience in portal development and want to take advantage of the options offered by open source tools.

REST API Development with Node.js Jul 26 2022 Manage and understand the full capabilities of successful REST development. REST API development is a hot topic in the programming world, but not many resources exist for developers to really understand how you can leverage the advantages. This completely updated second edition provides a brief background on REST and the tools it provides (well known and not so well known), then explains how there is more to REST than just JSON and URLs. You will learn about the maintained modules currently available in the npm community, including Express, Restify, Vatican, and Swagger. Finally you will code an example API

from start to finish, using a subset of the tools covered. The Node community is currently flooded with modules; some of them are published once and never updated again - cluttering the entire universe of packages. Pro REST API Development with Node.js shines light into that black hole of modules for the developers trying to create an API. Understand REST API development with Node.js using this book today. What You'll Learn Understand how REST and API development mix up with Node.js Create a scalable, technology agnostic, and uniform interface Prepare your services to be consumed by your clients Test and deploy your API Review troubleshooting techniques Who This Book Is For Any Node.js developer who wants to fully understand REST API development. Beginner and Intermediate Node.js developers who are looking to fully understand how to create RESTful microservices.

Advanced API Security Apr 23 2022 This book will prepare you to meet the next wave of challenges in enterprise security, guiding you through and sharing best practices for designing APIs for rock-solid security. It will explore different security standards and protocols, helping you choose the right option for your needs. Advanced API Security, Second Edition explains in depth how to secure APIs from traditional HTTP Basic Authentication to OAuth 2.0 and the standards built around it. Keep your business thriving while keeping enemies away. Build APIs with rock-solid security. The book takes you through the best practices in designing APIs for rock-solid security, provides an in depth understanding of most widely adopted security standards for API security and teaches you how to compare and contrast different security standards/protocols to find out what suits your business needs, the best. This new edition enhances all the topics discussed in its predecessor with the latest up to date information, and provides more focus on beginners to REST, JSON, Microservices and API security. Additionally, it covers how to secure APIs for the Internet of Things

(IoT). Audience: The Advanced API Security 2nd Edition is for Enterprise Security Architects and Developers who are designing, building and managing APIs. The book will provide guidelines, best practices in designing APIs and threat mitigation techniques for Enterprise Security Architects while developers would be able to gain hands-on experience by developing API clients against Facebook, Twitter, Salesforce and many other cloud service providers. What you'll learn • Build APIs with rock-solid security by understanding best practices and design guidelines. • Compare and contrast different security standards/protocols to find out what suits your business needs, the best. • Expand business APIs to partners and outsiders with Identity Federation. • Get hands-on experience in developing clients against Facebook, Twitter, and Salesforce APIs. • Understand and learn how to secure Internet of Things.

Parallel and Distributed Processing Nov 25 2019 This volume contains the proceedings from the workshops held in conjunction with the IEEE International Parallel and Distributed Processing Symposium, IPDPS 2000, on 1-5 May 2000 in Cancun, Mexico. The workshops provide a forum for bringing together researchers, practitioners, and designers from various backgrounds to discuss the state of the art in parallelism. They focus on different aspects of parallelism, from runtime systems to formal methods, from optics to irregular problems, from biology to networks of personal computers, from embedded systems to programming environments; the following workshops are represented in this volume: { Workshop on Personal Computer Based Networks of Workstations { Workshop on Advances in Parallel and Distributed Computational Models { Workshop on Par. and Dist. Comp. in Image, Video, and Multimedia { Workshop on High-Level Parallel Prog. Models and Supportive Env. { Workshop on High Performance Data Mining { Workshop on Solving Irregularly Structured Problems in Parallel { Workshop on Java for Parallel and Distributed Computing {

Workshop on Biologically Inspired Solutions to Parallel Processing Problems { Workshop on Parallel and Distributed Real-Time Systems { Workshop on Embedded HPC Systems and Applications { Reconfigurable Architectures Workshop { Workshop on Formal Methods for Parallel Programming { Workshop on Optics and Computer Science { Workshop on Run-Time Systems for Parallel Programming { Workshop on Fault-Tolerant Parallel and Distributed Systems All papers published in the workshops proceedings were selected by the program committee on the basis of referee reports. Each paper was reviewed by independent referees who judged the papers for originality, quality, and consistency with the themes of the workshops.