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Practical Rust Web Projects - Shing Lyu 2021-01-26

Go beyond the basics of Rust and build web and serverless cloud applications. The applications explained in this practical book include web sites, RESTful APIs, a real-time web chat application, and

frontend application with WebAssembly. Each chapter is organized in the following format: what this kind of application looks like; requirements for the example program; an introduction to the Rust libraries used; step-by-step implementation of the example

program, including common pitfalls and best practices; and a brief comparison of libraries and frameworks in the same domain. This book will open your eyes to the world of practical web applications of Rust. After reading the book, you will be able to apply your Rust knowledge to build your own web projects. What You Will Learn Build dynamic websites with databases Build RESTful APIs Write a WebSocket server that can power a real-time chat app in Rust Discover the benefits of serverless computing using Amazon Web Service's Rust support Compile Rust to WebAssembly for high-performance frontend applications Who This Book Is For A reader with basic Rust knowledge, wishing to learn more about how to apply Rust in a real-world scenario. A developer who is

evaluating the possibility to build their next project in Rust.

Practical hapi - Kanika Sud

2020-08-17

Understand the core concepts of hapi and learn to build RESTful APIs that are quick, useful, and productive. Created by the mobile team at Walmart Labs, hapi is a light Node.js framework that is perfect for building API servers, websites, and HTTP proxy applications. You will learn the basics of hapi and use those skills to build an application and a REST API with MySQL. You'll then cover two industry-relevant projects in detail and understand how to apply hapi, how to maintain security, and how to tackle errors without having to use workarounds. Used by companies such as PayPal and Mozilla, hapi is a key framework for

anyone serious about enterprise web development. Focus your time on critical project tasks instead of building infrastructure: use this book today. What You'll Learn Utilize the power of RESTful APIs and Node.js Work with hapi including all the core concepts Manage security and testing Use promises and asynchronous programming effectively Build your first hapi application Who This Book Is For Anyone with basic knowledge of JavaScript or Node.js who wants to learn to work with hapi. A primer for the relevant Node.js and JavaScript is provided so those with general programming experience can also use this book.

Pro RESTful APIs - Sanjay Patni

2017-03-20

Discover the RESTful technologies, including REST, JSON, XML, JAX-RS web

services, SOAP and more, for building today's microservices, big data applications, and web service applications. This book is based on a course the Oracle-based author is teaching for UC Santa Cruz Silicon Valley which covers architecture, design best practices and coding labs. Pro RESTful APIs: Design gives you all the fundamentals from the top down: from the top (architecture) through the middle (design) to the bottom (coding). This book is a must have for any microservices or web services developer building applications and services. What You'll Learn Discover the key RESTful APIs, including REST, JSON, XML, JAX, SOAP and more Use these for web services and data exchange, especially in today's big data context Harness XML, JSON, REST, and

JAX-RS in examples and case studies
Apply best practices to your
solutions' architecture Who This Book
Is For Experienced web programmers
and developers.

**Modelling Foundations and
Applications** - Andrzej Wąsowski
2016-06-22

This book constitutes the proceedings
of the 12th European Conference on
Modelling Foundations and
Applications, ECMFA 2016, held as
part of STAF 2016, in Vienna,
Austria, in July 2016. The 16 papers
presented in this volume were
carefully reviewed and selected from
47 submissions. The committee decided
to accept 16 papers, 12 papers for
the Foundations Track and 4 papers
for the Applications Track. Papers on
a wide range of MBE aspects were
accepted, including topics such as

multi- and many models, language
engineering, UML and meta-modeling,
experience reports and case studies,
and variability and uncertainty.
VMware VI and vSphere SDK - Steve Jin
2009-09-29

Drive Even More Value from
Virtualization: Write VMware®
Applications that Automate Virtual
Infrastructure Management Companies
running VMware have already achieved
enormous gains through
virtualization. The next wave of
benefits will come when they reduce
the time and effort required to run
and manage VMware platforms. The
VMware Infrastructure Software
Development Kit (VI SDK) includes
application programming interfaces
(APIs) that allow developers and
administrators to do just that. Until
now, there has been little

documentation for the APIs. In VMware VI and vSphere SDK, software architect Steve Jin demystifies the entire VMware VI and new vSphere SDK and offers detailed, task-based coverage of using the APIs to manage VMware more efficiently and cost-effectively. Jin walks you through using the VI SDK and cloud-computing vSphere SDK to manage ESX servers, ESX clusters, and VirtualCenter servers in any environment—no matter how complex. Drawing on his extensive expertise working with VMware strategic partners and enterprise customers, he places the VI SDK in practical context, presenting realistic samples and proven best practices for building robust, effective solutions. Jin demonstrates how to manage every facet of a VMware environment, including inventory,

host systems, virtual machines (VMs), snapshots, VMotion, clusters, resource pools, networking, storage, data stores, events, alarms, users, security, licenses, and scheduled tasks. Coverage includes Understanding how the VI SDK fits into your VMware VI and Cloud Ready vSphere Environment Discovering the VI and vSphere SDK from the bottom up Using the author's new VI Java API to write shorter, faster, and more maintainable code Managing VI and vSphere inventory and configurations Moving running VMs and storages across different physical platforms without disruption Optimizing system resources, hardening system securities, backing up VMs and other resources Leveraging events, alarms, and scheduled tasks to automate the system management Developing powerful

applications that integrate multiple API features and run on top of or alongside VMware platforms Using the VI SDK to monitor performance Scripting with the VI SDK: building solutions with VI Perl, PowerShell, and Jython Avoiding the pitfalls that trip up VMware VI developers Integrating with and extending VMware platforms using VI SDK This book is an indispensable resource for all VMware developers and administrators who want to get more done in less time; for hardware vendors who want to integrate their products with VMware; for ISV developers building new VMware applications; and for every professional and student seeking a deeper mastery of virtualization.

Building REST APIs with Flask - Kunal Relan 2019-09-12

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.

Service-Oriented Computing - Hakim Hacid 2021-12-19

This book constitutes the proceedings of the 19th International Conference on Service-Oriented Computing, ICSOC 2020, which is held virtually in November 2021. The 29 full, 28 short, and 3 vision papers included in this volume were carefully reviewed and selected from 189 submissions. They were organized in topical sections named: Blockchains and smart contracts, Architectures, microservices and APIs, Applications, Internet-of-Things, crowdsourced, social, and conversational services, Service composition and recommendation, Cloud computing, and Edge computing.

Microservices in SAP HANA XSA - Sergio Guerrero 2020-08-13

Build enterprise-grade microservices

in the SAP HANA Advanced Model (XSA). This book explains building scalable APIs in XSA and the benefits of building microservices with SAP HANA XSA. This book covers the cloud foundry (CF) architecture and how SAP HANA XSA follows the model. It begins with the details of the different architectural layers of applications hosted in XSA (specifically, microservices). Everything you need to know is presented, including analyzing requests, modularization, database ingestion, building JSON responses, and scaling your microservices. You will learn to use developmental tools such as the SAP WEB IDE, POSTMAN, and the SAP HANA Cockpit for XSA, including debugging examples on SAP HANA XSA with code snippets showing how microservices can be developed, debugged, scaled,

and deployed on SAP HANA XSA. Microservices are divided into security and authentication, request handling, modularization of Node.js, and interaction with the SAP HANA database containers and response formatting. An end-to-end scenario is presented of a Node.js REST API that uses HTTP methods, concluding with deploying an SAP HANA XSA project to a production environment. This book is simple enough to help you implement a Node.js module in order to understand the development of microservices, and complex enough for architects to design their next business-ready solution integrating UAA security, application modularization, and an end-to-end REST API on SAP HANA XSA. What You Will Learn Know the definition and architecture of cloud foundry and its

application on SAP HANA XSA
Understand REST principles and
different HTTP methods Explore
microservices (Node.js) development
Database interaction from Node
(executing SQL statements and stored
procedures) Who This Book Is For
Architects designing business-ready
solutions that integrate UAA
security, application modularization,
and an end-to-end REST API on SAP
HANA XSA

Pro JavaScript Design Patterns -

Dustin Diaz 2008-03-11

With Pro JavaScript Design Patterns,
you'll start with the basics of
object-oriented programming in
JavaScript applicable to design
patterns, including making JavaScript
more expressive, inheritance,
encapsulation, information hiding,
and more. The book then details how

to implement and take advantage of
several design patterns in
JavaScript. Each chapter is packed
with real-world examples of how the
design patterns are best used and
expert advice on writing better code,
as well as what to watch out for.
Along the way you'll discover how to
create your own libraries and APIs
for even more efficient coding.

Microservices - Antonio Bucchiarone
2019-12-11

This book describes in contributions
by scientists and practitioners the
development of scientific concepts,
technologies, engineering techniques
and tools for a service-based
society. The focus is on
microservices, i.e cohesive,
independent processes deployed in
isolation and equipped with dedicated
memory persistence tools, which

interact via messages. The book is structured in six parts. Part 1 “Opening” analyzes the new (and old) challenges including service design and specification, data integrity, and consistency management and provides the introductory information needed to successfully digest the remaining parts. Part 2 “Migration” discusses the issue of migration from monoliths to microservices and their loosely coupled architecture. Part 3 “Modeling” introduces a catalog and a taxonomy of the most common microservices anti-patterns and identifies common problems. It also explains the concept of RESTful conversations and presents insights from studying and developing two further modeling approaches. Next , Part 4 is dedicated to various aspects of “Development and

Deployment”. Part 5 then covers “Applications” of microservices, presenting case studies from Industry 4.0, Netflix, and customized SaaS examples. Eventually, Part 6 focuses on “Education” and reports on experiences made in special programs, both at academic level as a master program course and for practitioners in an industrial training. As only a joint effort between academia and industry can lead to the release of modern paradigm-based programming languages, and subsequently to the deployment of robust and scalable software systems, the book mainly targets researchers in academia and industry who develop tools and applications for microservices.

Advances in Information and Communication - Kohei Arai 2021-04-12
This book aims to provide an

international forum for scholarly researchers, practitioners and academic communities to explore the role of information and communication technologies and its applications in technical and scholarly development. The conference attracted a total of 464 submissions, of which 152 submissions (including 4 poster papers) have been selected after a double-blind review process. Academic pioneering researchers, scientists, industrial engineers and students will find this series useful to gain insight into the current research and next-generation information science and communication technologies. This book discusses the aspects of communication, data science, ambient intelligence, networking, computing, security and Internet of things, from classical to intelligent scope. The

authors hope that readers find the volume interesting and valuable; it gathers chapters addressing state-of-the-art intelligent methods and techniques for solving real-world problems along with a vision of the future research.

Technological Developments in Industry 4.0 for Business

Applications - Ferreira, Luis
2018-09-14

One of the most important issues businesses face is how to adapt to changing operational and administrative processes.

Globalization and high competition highlight the importance of technological innovation and its contribution to the organizational performance of businesses.

Technological Developments in Industry 4.0 for Business

Applications is a collection of innovative research on the methods and applications of developing new services related to industrial processes in order to improve organizational well-being. It also looks at the technological, organizational, and social aspects of Industry 4.0. Highlighting a range of topics including enterprise integration, logistic models, and supply chain, this book is ideally designed for computer engineers, managers, business and IT professionals, business researchers, and post-graduate students seeking current research on the evolution and development of business applications in the modern industry era.

Pro ASP.NET Web API Security -
Badrinarayanan Lakshmiraghavan
2013-05-13

ASP.NET Web API is a key part of ASP.NET MVC 4 and the platform of choice for building RESTful services that can be accessed by a wide range of devices. Everything from JavaScript libraries to RIA plugins, RFID readers to smart phones can consume your services using platform-agnostic HTTP. With such wide accessibility, securing your code effectively needs to be a top priority. You will quickly find that the WCF security protocols you're familiar with from .NET are less suitable than they once were in this new environment, proving themselves cumbersome and limited in terms of the standards they can work with. Fortunately, ASP.NET Web API provides a simple, robust security solution of its own that fits neatly within the ASP.NET MVC programming model and

secures your code without the need for SOAP, meaning that there is no limit to the range of devices that it can work with – if it can understand HTTP, then it can be secured by Web API. These SOAP-less security techniques are the focus of this book.

Unity Networking Fundamentals - Sloan Kelly 2021-11-14

Learn the fundamentals of networking with Unity and C#. This book covers a variety of topics, including accessing data using RESTful APIs, local networked games, and creating multiplayer online games using client-server architecture. The book provides the basics of networking, sockets, TCP vs. UDP, client-server architecture, serialization, RESTful APIs, network latency, and client-side prediction. Projects are

presented to illustrate the concepts, including a chat client/server overlay for your game, and a 3D maze game that allows up to four players to connect over the network. By the end of the book, you will be familiar with low-level networking concepts such as protocols and architecture as well as high-level knowledge on how to create applications that use a client/server architecture for multiplayer games. What You Will Learn Know the difference between TCP and UDP, and the pros and cons of these protocols Create client-server multiplayer games in Unity using C# Receive and process data from a remote server using RESTful APIs Understand latency and how to mitigate its impact Who This Book Is For Readers familiar with Unity and C# development who want to create

multiplayer games

Programming for Computations - Python

- Svein Linge 2016-07-25

This book presents computer programming as a key method for solving mathematical problems. There are two versions of the book, one for MATLAB and one for Python. The book was inspired by the Springer book TCSE 6: A Primer on Scientific Programming with Python (by Langtangen), but the style is more accessible and concise, in keeping with the needs of engineering students. The book outlines the shortest possible path from no previous experience with programming to a set of skills that allows the students to write simple programs for solving common mathematical problems with numerical methods in engineering and science courses. The emphasis is

on generic algorithms, clean design of programs, use of functions, and automatic tests for verification.

Artificial Intelligence and Games -

Georgios N. Yannakakis 2018-02-17

This is the first textbook dedicated to explaining how artificial intelligence (AI) techniques can be used in and for games. After introductory chapters that explain the background and key techniques in AI and games, the authors explain how to use AI to play games, to generate content for games and to model players. The book will be suitable for undergraduate and graduate courses in games, artificial intelligence, design, human-computer interaction, and computational intelligence, and also for self-study by industrial game developers and practitioners. The authors have

developed a website (<http://www.gameaibook.org>) that complements the material covered in the book with up-to-date exercises, lecture slides and reading.

Perspectives on Web Services - Olaf Zimmermann 2003

With a Foreword by Grady Booch

Spring REST - Balaji Varanasi
2015-06-19

Spring REST is a practical guide for designing and developing RESTful APIs using the Spring Framework. This book walks you through the process of designing and building a REST application while taking a deep dive into design principles and best practices for versioning, security, documentation, error handling, paging, and sorting. This book provides a brief introduction to REST, HTTP, and web infrastructure.

You will learn about several Spring projects such as Spring Boot, Spring MVC, Spring Data JPA, and Spring Security and the role they play in simplifying REST application development. You will learn how to build clients that consume REST services. Finally, you will learn how to use the Spring MVC test framework to unit test and integration test your REST API. After reading this book, you will come away with all the skills to build sophisticated REST applications using Spring technologies.

Practical Node.js - Azat Mardan
2018-08-17

Learn how to build a wide range of scalable real-world web applications using a professional development toolkit. If you already know the basics of Node.js, now is the time to

discover how to bring it to production level by leveraging its vast ecosystem of packages. With this book, you'll work with a varied collection of standards and frameworks and see how all those pieces fit together. Practical Node.js takes you from installing all the necessary modules to writing full-stack web applications. You'll harness the power of the Express.js and Hapi frameworks, the MongoDB database with Mongoskin and Mongoose. You'll also work with Pug and Handlebars template engines, Stylus and LESS CSS languages, OAuth and Everyauth libraries, and the Socket.IO and Derby libraries, and everything in between. This exciting second edition is fully updated for ES6/ES2015 and also covers how to deploy to Heroku and AWS, daemonize

apps, and write REST APIs. You'll build full-stack real-world Node.js apps from scratch, and also discover how to write your own Node.js modules and publish them on NPM. You already know what Node.js is; now learn what you can do with it and how far you can take it! What You'll Learn
Manipulate data from the mongo console
Use the Mongoskin and Mongoose MongoDB libraries
Build REST API servers with Express and Hapi
Deploy apps to Heroku and AWS
Test services with Mocha, Expect and TravisCI
Utilize sessions for authentication
Implement a third-party OAuth strategy with Everyauth
Apply Redis, domains, WebSockets, and clusters
Write your own Node.js module, and publish it on NPM
Who This Book Is For
Web developers who have some familiarity with the basics

of Node.js and want to learn how to use it to build apps in a professional environment.

Practical API Design - Jaroslav Tulach 2008-09-20

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

Spring REST - Balaji Varanasi

2021-11-28

Design and develop Java-based RESTful APIs using the latest versions of the Spring MVC and Spring Boot frameworks. This book walks you through the process of designing and building a REST application while delving into design principles and best practices for versioning, security, documentation, error handling, paging, and sorting. Spring REST provides a brief introduction to REST, HTTP, and web infrastructure. You will learn about several Spring projects such as Spring Boot, Spring MVC, Spring Data JPA, and Spring Security, and the role they play in simplifying REST application development. You will learn how to build clients that consume REST services. Finally, you will learn how to use the Spring MVC test framework

to unit test and integration test your REST API. After reading this book, you will come away with all the skills to build sophisticated REST applications using Spring technologies. What You Will Learn Build Java-based microservices, native cloud, or any applications using Spring REST Employ Spring MVC and RESTful Spring Build a QuickPoll application example Document REST services, as well as versioning, paging, and sorting Test, handle errors and secure your application Who This Book Is For Intermediate Java programmers with at least some prior experience with Spring and web/cloud application development. **Building Versatile Mobile Apps with Python and REST** - Art Yudin 2020 Develop versatile iOS apps using Python with RESTful web services.

This book will show you how to blend Django, a high-level Python Web framework, with Django REST, the powerful, feature-filled extension, to build iOS mobile apps. Using easy-to-follow examples, you'll begin by building a simple app using the RESTful Web API and iOS. You'll then work with traditional Django to create models and connect your App to the database. You'll also see how to serialize your data and create the RESTful API. The second part of the book introduces Xcode, a programming environment to develop iOS apps. Using Swift, the programming language for iOS, you'll design the actual app. Once you have your back-end in Django and a front-end in Swift, you'll connect them using our RESTful API. This will allow you to log in, browse places of interest, and rate

them and leave comments. Guided by step-by-step instructions, Building Versatile Mobile Apps with Python and REST will demonstrate how easy it is to use Python to develop iOS applications. You will: Build Create-Read-Update-Delete functionality using RESTful Web Services ; Incorporate marketing into the design of iOS apps to stand out in the App Store ; Deploy your app to a live server and add it to Apple app store .

API Management - Brajesh De
2017-03-17

Maximize the impact of your assets and business services by providing APIs for developers and other users. The journey described in this book starts with identifying business assets. As part of the API team, you then need to identify and define the

requirements of traffic management, security, mediation, and orchestration. You also must define metrics for the analytics to measure the success of the overall API program. API documentation and the ease of developer onboarding also determine the success of the APIs. Finally, monetization of these APIs leads to revenue generation for the enterprise. Author De – an expert in building and managing API solutions – provides enterprise architects, designers, and technologists with insight into the world of APIs and the various technical aspects of building and managing an effective API management solution. *API Management: Developing and Managing APIs for your Organization:* Introduces the basics of APIs and highlights their value Provides an

overview of technologies for building an API management solution and defines the requirements, including how to build a RESTful API Offers design principles for building developer-friendly APIs Explains how to secure your APIs Shows how to use API analytics to measure the success of your APIs Demonstrates how to monetize APIs Finally, API Management touches on various technical nuances of creating, distributing, and managing an API. This book will not only help you learn how to design, build, deploy, and manage an API for an enterprise scale, but also generate revenue for your organization. What You'll Learn Discover the API life cycle Design and develop APIs Implement API security Test your APIs Deploy and monitor your APIs Who This Book Is

For Enterprise architects, technology enthusiasts, security architects, and operations specialists.

Concise Guide to Object-Oriented Programming - Kingsley Sage

2019-04-23

This engaging textbook provides an accessible introduction to coding and the world of Object-Oriented (OO) programming, using Java as the illustrative programming language. Emphasis is placed on what is most helpful for the first-time coder, in order to develop and understand their knowledge and skills in a way that is relevant and practical. The examples presented in the text demonstrate how skills in OO programming can be used to create applications and programs that have real-world value in daily life. Topics and features: presents an overview of programming and

coding, a brief history of programming languages, and a concise introduction to programming in Java using BlueJ; discusses classes and objects, reviews various Java library objects and packages, and introduces the idea of the Application Programming Interface (API); highlights how OO design forms an essential role in producing a useful solution to a problem, and the importance of the concept of class polymorphism; examines what to do when code encounters an error condition, describing the exception handling mechanism and practical measures in defensive coding; investigates the work of arrays and collections, with a particular focus on fixed length arrays, the ArrayList, HashMap and HashSet; describes the basics of building a

Graphical User Interface (GUI) using Swing, and the concept of a design pattern; outlines two complete applications, from conceptual design to implementation, illustrating the content covered by the rest of the book; provides code for all examples and projects at an associated website. This concise guide is ideal for the novice approaching OO programming for the first time, whether they are a student of computer science embarking on a one-semester course in this area, or someone learning for the purpose of professional development or self-improvement. The text does not require any prior knowledge of coding, software engineering, OO, or mathematics.

Pro Git - Scott Chacon 2014-11-18
Pro Git (Second Edition) is your

fully-updated guide to Git and its usage in the modern world. Git has come a long way since it was first developed by Linus Torvalds for Linux kernel development. It has taken the open source world by storm since its inception in 2005, and this book teaches you how to use it like a pro. Effective and well-implemented version control is a necessity for successful web projects, whether large or small. With this book you'll learn how to master the world of distributed version workflow, use the distributed features of Git to the full, and extend Git to meet your every need. Written by Git pros Scott Chacon and Ben Straub, *Pro Git* (Second Edition) builds on the hugely successful first edition, and is now fully updated for Git version 2.0, as well as including an indispensable

chapter on GitHub. It's the best book for all your Git needs.

Modern API Design with ASP.NET Core 2
- Fanie Reynders 2018-03-07

Use ASP.NET Core 2 to create durable and cross-platform web APIs through a series of applied, practical scenarios. Examples in this book help you build APIs that are fast and scalable. You'll progress from the basics of the framework through to solving the complex problems encountered in implementing secure RESTful services. The book is packed full of examples showing how Microsoft's ground-up rewrite of ASP.NET Core 2 enables native cross-platform applications that are fast and modular, allowing your cloud-ready server applications to scale as your business grows. Major topics covered in the book include the

fundamentals and core concepts of ASP.NET Core 2. You'll learn about building RESTful APIs with the MVC pattern using proven best practices and following the six principles of REST. Examples in the book help in learning to develop world-class web APIs and applications that can run on any platform, including Windows, Linux, and MacOS. You can even deploy to Microsoft Azure and automate your delivery by implementing Continuous Integration and Continuous Deployment pipelines. What You Will Learn Incorporate automated API tooling such as Swagger from the OpenAPI specification Standardize query and response formats using Facebook's GraphQL query language Implement security by applying authentication and authorization using ASP.NET Identity Ensure the safe storage of

sensitive data using the data protection stack Create unit and integration tests to guarantee code quality Who This Book Is For Developers who build server applications such as web sites and web APIs that need to run fast and cross platform; programmers who want to implement practical solutions for real-world problems; those who want in-depth knowledge of the latest bits of ASP.NET Core 2.0

Microsoft Azure Cosmos DB Revealed - José Rolando Guay Paz 2018-01-17 Learn the main features of Azure Cosmos DB and how to use Microsoft's multi-model database service as a data store for mission-critical applications. The clear examples help in writing your own applications to take advantage of Cosmos DB's multi-model, globally distributed, elastic

database. Simple step-by-step instructions show how to resolve common and uncommon scenarios involving Azure Cosmos DB, and scenarios such as delivering extremely low response times (in the order of milliseconds), and scaling rapidly and globally. Microsoft Azure Cosmos DB Revealed demonstrates a multitude of possible implementations to get you started. This book guides you toward best practices to get the most out of Microsoft's Cosmos DB service. Later chapters in the book cover advanced implementation features, helping you master important elements such as securing the database, querying, and using various APIs. What You'll Learn Set up a development environment to work with Azure Cosmos DB Configure Azure Cosmos DB in a production environment

with multi-region distribution Query using all APIs, including SQL, JavaScript, MongoDB, and Graph Work with the Azure Cosmos DB.NET SDK in an application you built Access Cosmos DB from web applications created in .NET Who This Book Is For Developers who build applications to be hosted in Microsoft Azure, whether they use PaaS or IaaS. No previous knowledge of Azure Cosmos DB is assumed, but readers must be familiar with developing applications in Microsoft Visual Studio.

[REST API Development with Node.js](#) -

Fernando Doglio 2018-07-19

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.

Security and Privacy in Communication Networks - Noseong Park 2020-12-11 This two-volume set LNICST 335 and 336 constitutes the post-conference proceedings of the 16th International Conference on Security and Privacy in Communication Networks, SecureComm

2020, held in Washington, DC, USA, in October 2020. The conference was held virtually due to COVID-19 pandemic. The 60 full papers were carefully reviewed and selected from 120 submissions. The papers focus on the latest scientific research results in security and privacy in wired, mobile, hybrid and ad hoc networks, in IoT technologies, in cyber-physical systems, in next-generation communication systems in web and systems security and in pervasive and ubiquitous computing.

Building APIs with Node.js - Caio Ribeiro Pereira 2016-12-10

Learn how to build scalable APIs using the Node.js platform and ES6 (EcmaScript 2015) with this quick, informative guide. Developing systems for the wide range of devices available in the modern world

requires the construction of APIs designed to work only with data in a centralized manner, allowing client-side applications to be developed separately and have a unique interface for the final user. Node.js has proven itself to be an excellent platform for building REST APIs because of its single-thread architecture. It has a low learning curve and can be understood by anyone who has a basic understanding of the JavaScript language. Use Building APIs with Node.js today to understand how Node.js APIs work, and how you can build your own. What You Will Learn Build scalable APIs using the Node.js platform Use ES6, Express, Passport, ApiDoc, Mocha, Helmet and more Integrate an SQL database through Sequelize.js and build a single page application using

Vanilla.js Who This Book Is For Ideal for developers who have a basic understanding of JavaScript and Node.js.

Handbook of Reflection and Reflective Inquiry - Nona Lyons 2010-04-07

Philosophers have warned of the perils of a life spent without reflection, but what constitutes reflective inquiry - and why it's necessary in our lives - can be an elusive concept. Synthesizing ideas from minds as diverse as John Dewey and Paulo Freire, the *Handbook of Reflection and Reflective Inquiry* presents reflective thought in its most vital aspects, not as a fanciful or nostalgic exercise, but as a powerful means of seeing familiar events anew, encouraging critical thinking and crucial insight, teaching and learning. In its opening

pages, two seasoned educators, Maxine Greene and Lee Shulman, discuss reflective inquiry as a form of active attention (Thoreau's "wide-awakeness"), an act of consciousness, and a process by which people can understand themselves, their work (particularly in the form of life projects), and others. Building on this foundation, the *Handbook* analyzes through the work of 40 internationally oriented authors: - Definitional issues concerning reflection, what it is and is not; - Worldwide social and moral conditions contributing to the growing interest in reflective inquiry in professional education; - Reflection as promoted across professional educational domains, including K-12 education, teacher education, occupational therapy, and the law; - Methods of

facilitating and scaffolding reflective engagement; - Current pedagogical and research practices in reflection; - Approaches to assessing reflective inquiry. Educators across the professions as well as adult educators, counselors and psychologists, and curriculum developers concerned with adult learning will find the Handbook of Reflection and Reflective Inquiry an invaluable teaching tool for challenging times.

Lumen Programming Guide - Paul Redmond 2016-09-23

Learn to write test-driven microservices, REST APIs, and web service APIs with PHP using the Lumen micro-framework, from the now popular Laravel family. This book shows you how testing APIs can help you write bullet-proof web application services

and microservices. In the Lumen Programming Guide you will learn how to use Lumen—a micro-framework by Laravel—to write bullet-proof APIs. Lumen helps you write productive, maintainable APIs using modern application design. You will learn how to write fully-tested APIs and understand essential Lumen concepts used to build a solid foundation for writing API projects. What You Will Learn Maintain your API's database structure through built-in database migrations Write tests with factory data in a test database Respond with consistent data output in JSON Deal with PHP exceptions by using JSON responses Create, read, update, and delete REST resources Represent model associations in API responses Build a solid foundation for writing tests with PHPUnit and Mockery Validate

data Who This Book Is For PHP developers with no Laravel experience. Only a basic understanding of HTTP and writing PHP applications is needed to get started.

Advanced API Security - Prabath Siriwardena 2017-10-08

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.

Computational Life Sciences - Jens Dörpinghaus 2023-03-04

This book broadly covers the given spectrum of disciplines in Computational Life Sciences, transforming it into a strong helping hand for teachers, students, practitioners and researchers. In Life Sciences, problem-solving and data analysis often depend on biological expertise combined with technical skills in order to generate, manage and efficiently analyse big data. These technical skills can easily be enhanced by good theoretical foundations, developed from well-chosen practical examples and inspiring new strategies. This is the innovative approach of Computational Life Sciences-Data

Engineering and Data Mining for Life Sciences: We present basic concepts, advanced topics and emerging technologies, introduce algorithm design and programming principles, address data mining and knowledge discovery as well as applications arising from real projects. Chapters are largely independent and often flanked by illustrative examples and practical advise.

Pro MERN Stack - Vasan Subramanian
2019-05-11

Assemble the complete stack required to build a modern web app using MongoDB, Express, React, and Node. This book also covers many other complementary tools: React Router, GraphQL, React-Bootstrap, Babel, and Webpack. This new edition will use the latest version of React (React 16) and the latest React Router

(React Router 4), which has a significantly different approach to routing compared to React Router 2 which was used in the first edition of the book. Though the primary focus of Pro MERN Stack is to equip you with all that is required to build a full-fledged web application, a large portion of the book will be devoted to React 16. The popular MEAN (MongoDB, Express, AngularJS, Node) stack introduced Single Page Apps (SPAs) and front-end Model-View-Controller (MVC) as new and efficient paradigms. Facebook's React is a technology that competes indirectly with AngularJS. It is not a full-fledged MVC framework. It is a JavaScript library for building user interfaces (in some sense the View part). Yet, it is possible to build a web app by replacing AngularJS with

React – hence the term MERN stack
What You Will Learn Discover the
features of React 16 to get the
maximum out of this library Gain the
basics of MongoDB, Express, and Node
to build a web app Work with other
libraries complementary to React,
including React-Bootstrap, React
Router, and GraphQL Use tools such as
Babel and Webpack required to build
JavaScript-based SPAs Tie all the
components together to build a
complete web app. Who This Book Is
For Developers and architects who
have prior experience in any web app
stack other than the MERN stack will
find the book useful to learn about
this modern stack. Prior knowledge of
JavaScript, HTML, and CSS is
required.

Beginning Java 7 - Jeff Friesen
2012-01-24

Beginning Java 7 guides you through
version 7 of the Java language and a
wide assortment of platform APIs. New
Java 7 language features that are
discussed include switch-on-string
and try-with-resources. APIs that are
discussed include Threading, the
Collections Framework, the
Concurrency Utilities, Swing, Java
2D, networking, JDBC, SAX, DOM, StAX,
XPath, JAX-WS, and SAAJ. This book
also presents an introduction to
Android app development so that you
can apply some of its knowledge to
the exciting world of Android app
development. This book presents the
following table of contents: Chapter
1 introduces you to Java and begins
to cover the Java language by
focusing on fundamental concepts such
as comments, identifiers, variables,
expressions, and statements. Chapter

2 continues to explore this language by presenting all of its features for working with classes and objects. You learn about features related to class declaration and object creation, encapsulation, information hiding, inheritance, polymorphism, interfaces, and garbage collection. Chapter 3 focuses on the more advanced language features related to nested classes, packages, static imports, exceptions, assertions, annotations, generics, and enums. Additional chapters introduce you to the few features not covered in Chapters 1 through 3. Chapter 4 largely moves away from covering language features (although it does introduce class literals and `strictfp`) while focusing on language-oriented APIs. You learn about `Math`, `StrictMath`, `Package`, `Primitive Type`

`Wrapper Classes`, `Reference`, `Reflection`, `String`, `StringBuffer` and `StringBuilder`, `Threading`, `BigDecimal`, and `BigInteger` in this chapter. Chapter 5 begins to explore Java's utility APIs by focusing largely on the `Collections Framework`. However, it also discusses legacy collection-oriented APIs and how to create your own collections. Chapter 6 continues to focus on utility APIs by presenting the concurrency utilities along with the `Objects` and `Random` classes. Chapter 7 moves you away from the command-line user interfaces that appear in previous chapters and toward graphical user interfaces. You first learn about the `Abstract Window Toolkit` foundation, and then explore the `Java Foundation Classes` in terms of `Swing` and `Java 2D`. Appendix C explores `Accessibility` and `Drag and`

Drop. Chapter 8 explores filesystem-oriented I/O in terms of the File, RandomAccessFile, stream, and writer/reader classes. Chapter 9 introduces you to Java's network APIs (e.g., sockets). It also introduces you to the JDBC API for interacting with databases along with the Java DB database product. Chapter 10 dives into Java's XML support by first presenting an introduction to XML (including DTDs and schemas). It next explores the SAX, DOM, StAX, XPath, and XSLT APIs. It even briefly touches on the Validation API. While exploring XPath, you encounter namespace contexts, extension functions and function resolvers, and variables and variable resolvers. Chapter 11 introduces you to Java's support for SOAP-based and RESTful web services. As well as providing

you with the basics of these web service categories, Chapter 11 presents some advanced topics, such as working with the SAAJ API to communicate with a SOAP-based web service without having to rely on JAX-WS. You will appreciate having learned about XML in Chapter 10 before diving into this chapter. Chapter 12 helps you put to use some of the knowledge you've gathered in previous chapters by showing you how to use Java to write an Android app's source code. This chapter introduces you to Android, discusses its architecture, shows you how to install necessary tools, and develops a simple app. Appendix A presents the solutions to the programming exercises that appear near the end of Chapters 1 through 12. Appendix B introduces you to Java's Scripting

API along with Java 7's support for dynamically typed languages. Appendix C introduces you to additional APIs and architecture topics. Examples include Accessibility, classloaders, Console, Drag and Drop, Java Native Interface, and System Tray. Appendix D presents a gallery of significant applications that demonstrate various aspects of Java. Unfortunately, there are limits to how much knowledge can be crammed into a print book. For this reason, Appendixes A, B, C, and D are not included in this book's pages. Instead, these appendixes are freely distributed as PDF files. Appendixes A and B are bundled with the book's associated code file at the Apress website (<http://www.apress.com/9781430239093>). Appendixes C and D are bundled with their respective code files at my

TutorTutor.ca website (<http://tutortutor.ca/cgi-bin/makepage.cgi?/books/bj7>).

Automated Machine Learning - Frank Hutter 2019-05-17

This open access book presents the first comprehensive overview of general methods in Automated Machine Learning (AutoML), collects descriptions of existing systems based on these methods, and discusses the first series of international challenges of AutoML systems. The recent success of commercial ML applications and the rapid growth of the field has created a high demand for off-the-shelf ML methods that can be used easily and without expert knowledge. However, many of the recent machine learning successes crucially rely on human experts, who manually select appropriate ML

architectures (deep learning architectures or more traditional ML workflows) and their hyperparameters. To overcome this problem, the field of AutoML targets a progressive automation of machine learning, based on principles from optimization and machine learning itself. This book serves as a point of entry into this quickly-developing field for researchers and advanced students alike, as well as providing a reference for practitioners aiming to use AutoML in their work.

Pro ASP.NET Web API - Ali Uurlu
2013-09-24

Pro ASP.NET Web API shows you how to build flexible, extensible web services that run seamlessly on a range of operating systems and devices, from desktops to tablets to smart phones—even the ones we don't

know today. ASP.NET Web API is a new framework designed to simplify web service architecture. So if you're tired of interoperability issues between inflexible web services and clients tied to specific platforms or programming languages, or if you've ever struggled with WCF, this book is for you. To start with, you'll get up to speed on Web API's modern HTTP programming model, REST and your hosting options. You'll then dive into building a real application over a series of three chapters, so you can get an immediate feel for how this technology works in practice. The second half of the book features dedicated chapters on topics like routing, controllers, validation and tracing, and the authors close with discussions on performance, hosting and an all-important look at unit

testing to help you prepare your application for the real world. ASP.NET Web API makes HTTP a first-class citizen of .NET. With Pro ASP.NET Web API, you can build HTTP-based web services for your company or business, expose your data to the world across different formats and devices and gain the best possible global reach for your application.

ASP.NET Web API 2: Building a REST Service from Start to Finish - Jamie Kurtz 2014-08-07

The ASP.NET MVC Framework has always been a good platform on which to implement REST-based services, but the introduction of the ASP.NET Web API Framework raised the bar to a whole new level. Now in release version 2.1, the Web API Framework has evolved into a powerful and refreshingly usable platform. This

concise book provides technical background and guidance that will enable you to best use the ASP.NET Web API 2 Framework to build world-class REST services. New content in this edition includes: New capabilities in Web API 2 (currently version 2.1). Support for partial updates, or PATCH. API versioning. Support for legacy SOAP-based operations. How to handle non-resource APIs using REST How to best expose relationships between resources JSON Web Tokens, CORS, CSRF Get ready for authors Jamie Kurtz and Brian Wortman to take you from zero to REST service hero in no time at all. No prior experience with ASP.NET Web API is required; all Web API-related concepts are introduced from basic principles and developed to the point where you can use them in a

production system. A good working knowledge of C# and the .NET Framework are the only prerequisites to best benefit from this book.

Pro REST API Development with Node.js

- Fernando Doglio 2015-05-26

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.