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CROSS KENDAL

The JHipster Mini-Book John Wiley & Sons
 Build production-ready machine learning and NLP systems using functional programming, development platforms, and cloud deployment. **KEY FEATURES** ● In-depth explanation and code samples highlighting the features of the Julia language. ● Extensive coverage of the Julia development ecosystem, package management, DevOps environment integration, and performance management tools. ● Exposure to the most important Julia packages that aid in Data and Text Analytics and Deep Learning. **DESCRIPTION** The Julia Programming language enables data

scientists and programmers to create prototypes without sacrificing performance. Nonetheless, skeptics question its readiness for production deployments as a new platform with a 1.0 release in 2018. This book removes these doubts and offers a comprehensive glimpse at the language's use throughout developing and deploying production-ready applications. The first part of the book teaches experienced programmers and scientists about the Julia language features in great detail. The second part consists of gaining hands-on experience with the development environment, debugging, programming guidelines, package management, and cloud deployment strategies. In the final section, readers are introduced to a variety of third-party packages available in the Julia ecosystem for Data Processing, Text

Analytics, and developing Deep Learning models. This book provides an extensive overview of the programming language and broadens understanding of the Julia ecosystem. As a result, it assists programmers, scientists, and information architects in selecting Julia for their next production deployments. **WHAT YOU WILL LEARN** ● Get to know the complete fundamentals of Julia programming. ● Explore Julia development frameworks and how to work with them. ● Dig deeper into the concepts and applications of functional programming. ● Uncover the Julia infrastructure for development, testing, and deployment. ● Learn to practice Julia libraries and the Julia package ecosystem. ● Processing Data, Deep Learning, and Natural Language Processing with Julia. **WHO THIS BOOK IS FOR** This book is for Data Scientists and application developers

who want to learn about Julia application development. No prior Julia knowledge is required but knowing the basics of programming helps understand the objectives of this book.

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Java for Testers Springer Nature
Get up to speed on the game-changing developments in SQL Server 2019. No longer just a database engine, SQL Server 2019 is cutting edge with support for machine learning (ML), big data analytics, Linux, containers, Kubernetes, Java, and data virtualization to Azure. This is not a book on traditional database administration for SQL Server. It focuses on all that is new for one of the most successful modernized data platforms in the industry. It is a book for data professionals who already know the fundamentals of SQL Server and want to up their game by building their skills in some of the hottest new areas in technology. SQL Server 2019 Revealed begins with a look at the project's team goal to integrate the world of big data with SQL Server into a major product release. The book then dives into the details of key new capabilities in SQL Server 2019 using a "learn by example" approach for Intelligent Performance, security, mission-critical availability, and features for the modern developer. Also covered are enhancements to SQL Server 2019 for Linux and gain a comprehensive look at SQL Server using containers and Kubernetes clusters. The book concludes by showing you how to virtualize your data access with Polybase to Oracle, MongoDB, Hadoop, and Azure, allowing you to reduce the need for expensive extract, transform, and load (ETL) applications. You will then learn how to take your knowledge of containers, Kubernetes, and Polybase to build a comprehensive solution called Big Data Clusters, which is a marquee feature of 2019. You will also learn how to gain access to Spark, SQL Server, and HDFS to build intelligence over your own data lake and deploy end-to-end machine learning applications. What You Will Learn
Implement Big Data Clusters with SQL Server, Spark, and HDFS
Create a Data Hub with connections to Oracle,

Azure, Hadoop, and other sources
Combine SQL and Spark to build a machine learning platform for AI applications
Boost your performance with no application changes using Intelligent Performance
Increase security of your SQL Server through Secure Enclaves and Data Classification
Maximize database uptime through online indexing and Accelerated Database Recovery
Build new modern applications with Graph, ML Services, and T-SQL Extensibility with Java
Improve your ability to deploy SQL Server on Linux
Gain in-depth knowledge to run SQL Server with containers and Kubernetes
Know all the new database engine features for performance, usability, and diagnostics
Use the latest tools and methods to migrate your database to SQL Server 2019
Apply your knowledge of SQL Server 2019 to Azure
Who This Book Is For
IT professionals and developers who understand the fundamentals of SQL Server and wish to focus on learning about the new, modern capabilities of SQL Server 2019. The book is for those who want to learn about SQL Server 2019 and the new Big Data Clusters and AI feature set, support for machine learning and Java, how to run SQL Server with containers and Kubernetes, and increased capabilities around Intelligent Performance, advanced security, and high availability.

Monolith to Microservices Springer
This book will teach you what you need to know to start using GitHub effectively for collaborating and working on your software projects. Key Features
Effectively use GitHub by learning its key features to leverage the power of Git and make collaboration on code easy to work with. Be more productive on the development workflow of your projects using the valuable toolset that GitHub provides. Explore the world of GitHub by following simple, step-by-step, real-world scenarios accompanied by helpful, explanatory screenshots. Book Description
Whether you are an experienced developer or a novice, learning to work with Version Control Systems is a must in the software development world. Git is the most popular tool for that purpose, and GitHub was built around it, leveraging its powers by bringing it to the web. Starting with the basics of creating a repository, you will then learn how to manage the issue tracker, the place where discussions about your project take place. Continuing our journey, we will explore how to use the wiki and write rich documentation that will accompany your project. You will also master organization/team management and some of the features that made GitHub so well known, including pull

requests. Next, we will focus on creating simple web pages hosted on GitHub and lastly, we will explore the settings that are configurable for a user and a repository. What you will learn
Create and upload repositories to your account
Create organizations and manage teams with different access levels on repositories
Use the issue tracker effectively and add context to issues with labels and milestones
Create, access, and personalize your user account and profile settings
Build a community around your project using the sophisticated tools GitHub provides
Create GitHub pages and understand web analytics
Who this book is for
This book is for experienced or novice developers with a basic knowledge of Git. If you ever wanted to learn how big projects such as Twitter, Google, or even GitHub collaborate on code, then this book is for you.

Introduction to Voice Computing in Python Apress

Create media-rich client applications using JavaFX 9 and the Java 9 platform. Learn to create GUI-based applications for mobile devices, desktop PCs, and even the web. Incorporate media such as audio and video into your applications. Interface with hardware devices such as Arduino and Leap Motion. Respond to gesture control through devices such as the Leap Motion Controller. Take advantage of the new HTTP2 API to make RESTful web requests and WebSockets calls. New to this edition are examples of creating stylized text and loading custom fonts, guidance for working with Scene Builder to create visual layouts, and new content on developing iOS and Android applications using Gluon mobile. The book also covers advanced topics such as custom controls, JavaFX 3D, gesture devices, printing, and animation. Best of all, the book is full of working code that you can adapt and extend to all your future projects. Is your goal to develop visually exciting applications in the Java language? Then this is the book you want at your side. JavaFX 9 by Example is chock-full of engaging, fun-to-work examples that bring you up to speed on the major facets of JavaFX 9. You'll learn to create applications that look good, are fun to use, and that take advantage of the medium to present data of all types in ways that engage the user and lead to increased productivity. The book: Has been updated with new content on modular development, new APIs, and an example using the Scene Builder tool
Is filled with fun and practical code examples that you can modify and drop into your own projects
Includes an example using

Arduino and an accelerometer sensor to track motion in 3D Helps you create JavaFX applications for iOS and Android devices What You'll Learn Work with touch-based interfaces Interpret gesture-based events Use shapes, color, text, and UI controls to create a simple click and point game Add audio and video to your projects Utilize JavaFX 3D Create custom controls using CSS, SVG, and Canvas APIs Organize code into modules using Java Platform Module System (Project Jigsaw) Who This Book Is For Java developers developing visual and media-rich applications to run on PCs, phones, tablets, Arduino controllers, and more. This includes developers tasked with creating visualizations of data from statistical analysis and from sensor networks. Any developer wanting to develop a polished user-interface in Java will find much to like in this book.

Blogdown Packt Publishing Ltd

If you are a software developer with little or no experience of versioning systems, or are familiar with other centralized versioning systems, then this book is for you. If you have some experience working with command lines or using Linux admin or just using Unix and want to know more about Git, then this book is ideal for you.

Automating Workflows with GitHub Actions

Simon and Schuster

Build, test, and deploy code right from your GitHub repository by automating, customizing, and executing software development workflows with GitHub Actions Key Features Enhance your CI/CD and DevOps workflows using GitHub Actions Discover how to create custom GitHub Actions using Docker and JavaScript Get up and running with building a CI/CD pipeline effectively Book Description GitHub Actions is one of the most popular products that enables you to automate development tasks and improve your software development workflow.

Automating Workflows with GitHub Actions uses real-world examples to help you automate everyday tasks and use your resources efficiently. This book takes a practical approach to helping you develop the skills needed to create complex YAML files to automate your daily tasks. You'll learn how to find and use existing workflows, allowing you to get started with GitHub Actions right away. Moving on, you'll discover complex concepts and practices such as self-hosted runners and writing workflow files that leverage other platforms such as Docker as well as programming languages such as Java and JavaScript. As you advance, you'll be able to write your own JavaScript, Docker, and composite run steps actions, and publish

them in GitHub Marketplace! You'll also find instructions to migrate your existing CI/CD workflows into GitHub Actions from platforms like Travis CI and GitLab. Finally, you'll explore tools that'll help you stay informed of additions to GitHub Actions along with finding technical support and staying engaged with the community. By the end of this GitHub book, you'll have developed the skills and experience needed to build and maintain your own CI/CD pipeline using GitHub Actions. What you will learn Get to grips with the basics of GitHub and the YAML syntax Understand key concepts of GitHub Actions Find out how to write actions for JavaScript and Docker environments Discover how to create a self-hosted runner Migrate from other continuous integration and continuous delivery (CI/CD) platforms to GitHub Actions Collaborate with the GitHub Actions community and find technical help to navigate technical difficulties Publish your workflows in GitHub Marketplace Who this book is for This book is for anyone involved in the software development life cycle, for those looking to learn about GitHub Actions and what can be accomplished, and for those who want to develop a new skill to help them advance their software development career. If you are new to GitHub and GitHub Actions in general, then this book is for you. Basic knowledge of GitHub as a platform will help you to get the most out of this book.

Introducing GitHub Apress

If you're new to GitHub, this concise book shows you just what you need to get started and no more. It's perfect for project and product managers, stakeholders, and other team members who want to collaborate on a development project—whether it's to review and comment on work in progress or to contribute specific changes. It's also great for developers just learning GitHub. GitHub has rapidly become the default platform for software development, but it's also ideal for other text-based documents, from contracts to screenplays. This hands-on book shows you how to use GitHub's web interface to view projects and collaborate effectively with your team. Learn how and why people use GitHub to collaborate View the status of a project—recent changes, outstanding work, and historic changes Create and edit files through GitHub without learning Git Suggest changes to projects you don't have permission to edit directly Use tools like issues, pull requests, and branches to specify and collaborate on changes Create a new GitHub repository to control who has access to your project

Hands-On Julia Programming Pearson

Education

You've got a great idea for an Apple Watch app. But how do you get your app from idea to wrist? This book shows you how to make native watchOS apps for Apple's most personal device yet. You'll learn how to display beautiful interfaces to the user, how to use the watch's heart rate monitor and other hardware features, and the best way to keep everything in sync across your users' devices. New in this edition is coverage of native apps for watchOS 2. With the new version of the WatchKit SDK in Xcode 7, your apps run directly on the watch. On Apple Watch, your app is right on your users' wrists, making your code closer than ever before. Create native watchOS apps by extending your iPhone app with a WatchKit Extension, giving your users quick access to your app's most important features and an intimate user experience that's always within arm's reach. You won't just be creating apps - with Glances to provide timely information, notifications to inform your users of the latest updates, and watch face complications to show your users data as soon as they raise their wrists, your watchOS apps will be the best the App Store has to offer. Any book can teach you how to make a watch app. This book will help focus your efforts and refine your app's feature set. Which features make sense on the watch? How should you organize them? You'll learn what to consider when judging watch app features, allowing you to come up with the best strategy for your app. You'll test your apps on real Apple Watch hardware, and by the end of this book, you'll be ready to ship to the App Store. What You Need: You'll need a Mac running OS X Yosemite capable of running Xcode 7 or later. To build your apps for your Apple Watch, you'll need to be running watchOS 2 or later, connected to a compatible iPhone.

DevOps Paradox Faraday Academy

It's an exciting time to be a developer in the voice computing space: 1 in 4 searches on Google are now voice-enabled, Amazon Alexa just passed 10,000 skills, and 100 million calls are completed on WhatsApp daily. But where do you go to start learning how to code in this field? Whether you are a veteran developer or just starting out, this book guides you through the process of building voice-based applications in Python. Understand how to read/write, record, clean, encrypt, playback, transcode, transcribe, compress, publish, featurize, model, and visualize voice files Build your own voice computer and voice assistant from scratch Design cutting-edge microservice server architectures on top of Docker and

Kubernetes Get access to 200+ starter scripts in a GitHub repository Become involved in the larger open source voice community

Clean Code "O'Reilly Media, Inc."

A high-performance data access layer must resonate with the underlying database system. Knowing the inner workings of a relational database and the data access frameworks in use can make the difference between a high-performance enterprise application and one that barely crawls. This book is a journey into Java data access performance tuning. From connection management, to batch updates, fetch sizes and concurrency control mechanisms, it unravels the inner workings of the most common Java data access frameworks. The first part aims to reduce the gap between application developers and database administrators. For this reason, it covers both JDBC and the database fundamentals that are of paramount importance when reducing transaction response times. In this first part, you'll learn about connection management, batch updates, statement caching, result set fetching and database transactions. The second part demonstrates how you can take advantage of JPA and Hibernate without compromising application performance. In this second part, you'll learn about the most efficient Hibernate mappings (basic types, associations, inheritance), fetching best practices, caching and concurrency control mechanisms. The third part is dedicated to jOOQ and its powerful type-safe querying capabilities, like window functions, common table expressions, upsert, stored procedures and database functions.

High-Performance Java Persistence O'Reilly Media

The things you need to do to set up a new software project can be daunting. First, you have to select the back-end framework to create your API, choose your database, set up security, and choose your build tool. Then you have to choose the tools to create your front end: select a UI framework, configure a build tool, set up Sass processing, configure your browser to auto-refresh when you make changes, and configure the client and server so they work in unison. If you're building a new application using Spring Boot and Angular, you can save days by using JHipster. JHipster generates a complete and modern web app, unifying: - A high-performance and robust Java stack on the server side with Spring Boot - A sleek, modern, mobile-first front-end with Angular and Bootstrap - A robust microservice architecture with the JHipster Registry,

Netflix OSS, the ELK stack, and Docker - A powerful workflow to build your application with Yeoman, Webpack, and Maven/Gradle *Kafka Streams in Action* Packt Publishing Ltd

blogdown: Creating Websites with R Markdown provides a practical guide for creating websites using the blogdown package in R. In this book, we show you how to use dynamic R Markdown documents to build static websites featuring R code (or other programming languages) with automatically rendered output such as graphics, tables, analysis results, and HTML widgets. The blogdown package is also suitable for technical writing with elements such as citations, footnotes, and LaTeX math. This makes blogdown an ideal platform for any website designed to communicate information about data science, data analysis, data visualization, or R programming. Note that blogdown is not just for blogging or sites about R; it can also be used to create general-purpose websites. By default, blogdown uses Hugo, a popular open-source static website generator, which provides a fast and flexible way to build your site content to be shared online. Other website generators like Jekyll and Hexo are also supported. In this book, you will learn how to: Build a website using the blogdown package; Create blog posts and other website content as dynamic documents that can be easily edited and updated; Customize Hugo templates to suit your site's needs; Publish your website online; Migrate your existing websites to blogdown and Hugo. Yihui Xie is a software engineer at RStudio. He has authored and co-authored several R packages, including knitr, rmarkdown, bookdown, blogdown, shiny, xaringan, and animation. He has published two other books, *Dynamic Documents with R* and *knitr* and *bookdown: Authoring Books and Technical Documents with R Markdown*. Amber Thomas is a data journalist and "maker" at the online publication of visual essays: *The Pudding* (<https://pudding.cool>). Her educational background was marine biology, but she has a strong love of data analysis, visualization, and storytelling. Alison Presmanes Hill is an Associate Professor of Pediatrics at Oregon Health & Science University, where she teaches Computer Science courses on data analysis, data science, and visualization. Her research focuses on using computational methods to study the development of children with neurodevelopmental disorders, in particular Autism Spectrum Disorders. *Terraform in Action* Purdue University

Press

Master Powerful Off-the-Shelf Business Solutions for AI and Machine Learning Pragmatic AI will help you solve real-world problems with contemporary machine learning, artificial intelligence, and cloud computing tools. Noah Gift demystifies all the concepts and tools you need to get results—even if you don't have a strong background in math or data science. Gift illuminates powerful off-the-shelf cloud offerings from Amazon, Google, and Microsoft, and demonstrates proven techniques using the Python data science ecosystem. His workflows and examples help you streamline and simplify every step, from deployment to production, and build exceptionally scalable solutions. As you learn how machine language (ML) solutions work, you'll gain a more intuitive understanding of what you can achieve with them and how to maximize their value. Building on these fundamentals, you'll walk step-by-step through building cloud-based AI/ML applications to address realistic issues in sports marketing, project management, product pricing, real estate, and beyond. Whether you're a business professional, decision-maker, student, or programmer, Gift's expert guidance and wide-ranging case studies will prepare you to solve data science problems in virtually any environment. Get and configure all the tools you'll need Quickly review all the Python you need to start building machine learning applications Master the AI and ML toolchain and project lifecycle Work with Python data science tools such as IPython, Pandas, Numpy, Jupyter Notebook, and Sklearn Incorporate a pragmatic feedback loop that continually improves the efficiency of your workflows and systems Develop cloud AI solutions with Google Cloud Platform, including TPU, Colaboratory, and Datalab services Define Amazon Web Services cloud AI workflows, including spot instances, code pipelines, boto, and more Work with Microsoft Azure AI APIs Walk through building six real-world AI applications, from start to finish Register your book for convenient access to downloads, updates, and/or corrections as they become available. See inside book for details.

Learn to Code. Get a Job. "O'Reilly Media, Inc."

For your next project on GitHub, take advantage of the service's powerful API to meet your unique development requirements. This practical guide shows you how to build your own software tools for customizing the GitHub workflow. Each hands-on chapter is a compelling story that walks you through the tradeoffs and considerations for building applications on

top of various GitHub technologies. If you're an experienced programmer familiar with GitHub, you'll learn how to build tools with the GitHub API and related open source technologies such as Jekyll (site builder), Hubot (NodeJS chat robot), and Gollum (wiki). Build a simple Ruby server with Gist API command-line tools and Ruby's "Octokit" API client Use the Gollum command-line tool to build an image management application Build a GUI tool to search GitHub with Python Document interactions between third-party tools and your code Use Jekyll to create a fully-featured blog from material in your GitHub repository Create an Android mobile application that reads and writes information into a Jekyll repository Host an entire single-page JavaScript application on GitHub Use Hubot to automate pull request reviews

JavaFX 9 by Example "O'Reilly Media, Inc." How do you detangle a monolithic system and migrate it to a microservice architecture? How do you do it while maintaining business-as-usual? As a companion to Sam Newman's extremely popular *Building Microservices*, this new book details a proven method for transitioning an existing monolithic system to a microservice architecture. With many illustrative examples, insightful migration patterns, and a bevy of practical advice to transition your monolith enterprise into a microservice operation, this practical guide covers multiple scenarios and strategies for a successful migration, from initial planning all the way through application and database decomposition. You'll learn several tried and tested patterns and techniques that you can use as you migrate your existing architecture. Ideal for organizations looking to transition to microservices, rather than rebuild Helps companies determine whether to migrate, when to migrate, and where to begin Addresses communication, integration, and the migration of legacy systems Discusses multiple migration patterns and where they apply Provides database migration examples, along with synchronization strategies Explores application decomposition, including several architectural refactoring patterns Delves into details of database

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- First Tuesday Exam Answers : [click here](#)

decomposition, including the impact of breaking referential and transactional integrity, new failure modes, and more

GitHub For Dummies "O'Reilly Media, Inc."

Get more out of your coding with GitHub For today's coders, GitHub is a must. The world's largest software development platform, GitHub helps developers store, track, and collaborate on software projects. In this easy-to-follow Dummies guide, you'll find insight into creating repositories, establishing projects, collaborating, incorporating open-source resources, and establishing yourself as a valued member of the GitHub community. With a working knowledge of GitHub, you'll be a better, more employable programmer. The simple instructions and interactive examples in this book will get you there quickly. Get the instructions you need for using GitHub to collaborate on software projects Become more attractive to employers with knowledge and experience in the largest development platform Set up GitHub Desktop, create a repository, and launch your first project Use GitHub Skills courses to learn new tricks, for beginners to pros You've learned how to write a little code—now learn how to share it with GitHub.

Beginning Git and GitHub Packt Publishing Ltd

This book constitutes revised selected papers from the 18th Workshop on e-Business, WeB 2019, which took place in Munich, Germany, in December 2019. The purpose of WeB is to provide a forum for researchers and practitioners to discuss findings, novel ideas, and lessons learned to address major challenges and map out the future directions for e-Business. The WeB 2019 theme was "Smart Business: Technology and Data Enabled Innovative Business Models and Practices." The 20 papers included in this volume were carefully reviewed and selected from a total of 42 submissions. The contributions are organized in topical sections as follows: crowdfunding and blockchain; business analytics; digital platforms and social media; managing e-Business projects and processes; and global e-Business.

Mastering Microsoft Dynamics NAV 2016

Packt Publishing Ltd

Looks at the principles and clean code, includes case studies showcasing the practices of writing clean code, and contains a list of heuristics and "smells" accumulated from the process of writing clean code.

GitHub Essentials CRC Press

Do you want to learn to code but don't know where to start? This book cuts through the noise and gives you a no-nonsense guide to learning and landing your first job as a software developer. Each chapter leaves you with actionable steps so you can get started right away. Here are the topics covered: * How to create a learning plan * How, when, and where to network as a software developer * How to market yourself to look professional * How to handle job applications and interviews * How to land your first job in the industry This is version 2 and has been completely updated and re-edited based off of feedback and changes in the tech industry.

Git Essentials Lulu.com

Text-to-speech (TTS) aims to synthesize intelligible and natural speech based on the given text. It is a hot topic in language, speech, and machine learning research and has broad applications in industry. This book introduces neural network-based TTS in the era of deep learning, aiming to provide a good understanding of neural TTS, current research and applications, and the future research trend. This book first introduces the history of TTS technologies and overviews neural TTS, and provides preliminary knowledge on language and speech processing, neural networks and deep learning, and deep generative models. It then introduces neural TTS from the perspective of key components (text analyses, acoustic models, vocoders, and end-to-end models) and advanced topics (expressive and controllable, robust, model-efficient, and data-efficient TTS). It also points some future research directions and collects some resources related to TTS. This book is the first to introduce neural TTS in a comprehensive and easy-to-understand way and can serve both academic researchers and industry practitioners working on TTS.