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Swift High Performance

Beth Keser, Steffen Kröhnert

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Full Stack iOS Development with Swift and Vapor Hem Dutt, 2024-09-03 This comprehensive book combines the strengths of Swift the Vapor framework and iOS development to create dynamic full stack applications Perfect for aspiring developers students and seasoned iOS professionals this book equips you with the skills needed to master both server side and client side development Key topics include understanding the fundamentals and history of full stack development and the concept of a minimum viable product installing and configuring essential tools and SDKs for Vapor and iOS development mastering data persistence by integrating PostgreSQL with the Vapor framework and implementing data storage solutions in iOS apps using Core Data and SQLite Companion files sample code and figures are available for downloading by writing to the publisher FEATURES Includes real world projects and exercises to apply your newly acquired skills in practical scenarios Emphasizes best practices security considerations and performance optimization techniques Features comprehensive exploration of both backend and frontend development Companion files sample code and figures are available for downloading by writing to the publisher **Swift High Performance** Kostiantyn Koval, 2015-11-06 Leverage Swift and enhance your code to take your applications to the next level About This Book Build solid high performance applications in Swift Increase your efficiency by getting to grips with concurrency and parallel programming Use Swift to design performance oriented solutions Who This Book Is For This book is aimed at experienced Swift developers wanting to optimize their programs on Apple platforms to optimize application performance What You Will Learn Build solid stable and reliable applications using Swift Use REPL and PL to manage and configure relational databases Explore Swift's features including its static type system value objects and functional programming Design reusable code for high performance in Swift Use to Xcode LLBD and REPL to debug commands Avoid sharing resources by using concurrency and parallel programming Understand the lazy loading pattern lazy sequences and lazy evolution In Detail Swift is one of the most popular and powerful programming languages for building iOS and Mac OS applications and continues to evolve with new features and capabilities Swift is considered a replacement to Objective C and has performance advantages over Objective C and Python Swift adopts safe programming patterns and adds modern features to make programming easier more flexible and more fun Develop Swift and discover best practices that allow you to build solid applications and optimize their performance First a few of performance characteristics of Swift will be explained You will implement new tools available in Swift including Playgrounds and REPL These will improve your code efficiency enable you to analyse Swift code and enhance performance Next the importance of building solid applications using multithreading concurrency and multi core device architecture is covered before moving on to best practices and techniques that you should utilize when building high performance applications such as concurrency and lazy loading Finally you will explore the underlying structure of Swift further and learn how to disassemble and compile Swift code Style and approach This is a comprehensive guide to enhancing Swift programming

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