Ever wondered why your app is crashing?

"iOS Crash Dump Analysis" is a book for the hobbyist, software professional, and student trying to master the craft of iOS software development.

For the experienced software professional, see this book as a way to check off the advanced level iOS skills check box. It adds to your arsenal of tools, and techniques, to be a highly productive software engineer. For some of those mysterious and odd problems that result in a crash, this book could help you save hours, or days. Whether you are on consulting gigs looking to delight your customer, or in a corporate environment earning your way up through the ranks, the knowledge in this book is a definite step along that journey.

For the student, this book adds something special. We don't just look at the anatomy of a crash report. We look into the underlying software engineering approach that caused the problem, and discuss techniques for avoiding such issues. We also delve into a formal trouble shooting methodology as it applies to crash dump analysis. The result is that, from the get-go, you can develop your skills, using best practice, and avoid the traps others fall into. It means you can hand in your assignment, on-time, without undue stress!

For the hobbyist, this book revels in the dark corners of iOS. If watching WWDC videos is your idea of popcorn entertainment in front of your Apple TV then you are among friends here. We don't just stay at high level, we delve deep into assembly level details.

And there's more...

This book serves as a complete guide. We also cover macOS, tvOS, watchOS. We cover crashes with C, Objective-C, Objective-C++, C++, as well as our modern savior, the Swift programming language. We show examples of our own crashes, and we look at first party crashes in Apple provided software. Even if you are not programming, you can participate in the resolution and reporting of crash bugs.

Apple provides WWDC videos, Tech Notes, and Tooling. But software engineering principles and formal troubleshooting must be added to the mix to be effective at crash dump analysis. This book fills the missing gaps. It unravels the mystery of crash dump analysis. We invite you to read about, and explore, this remarkable world.