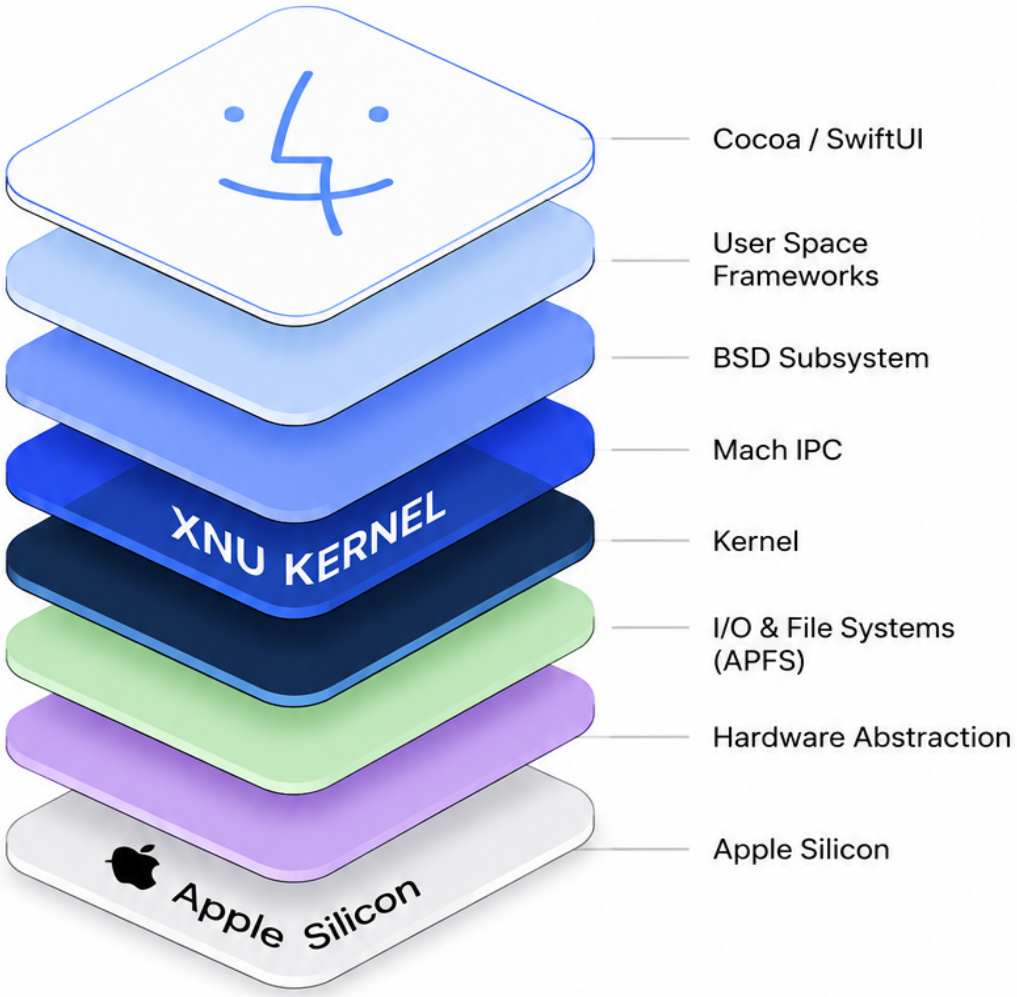
Inside macOS

ARCHITECTURE, KERNEL, AND SYSTEMS PROGRAMMING ON APPLE'S OPERATING SYSTEM



JACOB NEAL

Inside macOS

Architecture, Kernel, and Systems Programming on Apple's Operating System

Steve T. Publications

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Architecture, Kernel, and Systems Programming on Apple's Operating System

About this book: macOS is one of the most widely used operating systems in the world, yet its internals remain opaque to all but a small community of engineers, security researchers, and reverse engineers. This book provides a comprehensive, technically rigorous exploration of modern macOS internals – from the XNU kernel through Mach IPC, BSD processes, APFS storage, Apple Silicon architecture, and the layered security mechanisms that protect the system. Whether you are a systems programmer writing low-level code, a security researcher investigating vulnerabilities, or an operating systems student seeking to understand how a real-world hybrid kernel works, this book gives you the deep technical knowledge to navigate macOS's complex architecture with confidence.

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