Peter Kos

Seattle-based engineer & musician

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professional

Apple | Messages Services and Security Engineer

Jan 2025 - Present

- Increasing reliability of core delivery and security features

WillowTree | Platform Software Engineer

Jun 2022 - Jun 2024

Clients include: Fox Sports, Fortune-50 Carrier, Telus, Empathable

Code
- Shipped for '22 World Cup, '23 Super Bowl launches
  - Redesigned Stories, Super Bowl livestream kickoff, miniplayer layout
- Led cross-platform integration of design system SDK
- Rearchitected feature module for resiliency from GraphQL backend
- MVVM / Composable architecture

Delivery
- Shipped to >5 million users
- Owned medium to large features from concept to delivery
- Owned CI pipelines (GitHub/GitLab runners)
- Increased team throughput by 5x in build optimizations
- Implemented to the WCAG AA accessibility standard
  - @FocusState, cognitive usability, color contrast, dynamic type

Leadership
- Mentored interns, engineers, test engineers
- Led company-wide iOS learning sessions
- Led program-wide platform syncs on largest client engagement

WHOOP | iOS Engineer Co-Op

Jan 2021 - Jun 2021

- Developed features for Sleep tracking & Smart Alarm
- Owned the iOS Widget (design, data refresh, logging, networking)
- Fixed critical bugs (>50k users)
  - Correctly flush database+cache on account switch
  - Eliminate race conditions when loading sleep analysis
- Used: Combine, MVVM, Obj-C, CoreData, dSYMs, LLDB
- Gave regular presentations on iOS release strategy, testability

Tomorrow Ideas | Backend Intern

Jun 2018 - Aug 2018

- Extended the mobile REST API to handle localized app data
- Used: PHP, Laravel, Vue.js, Postgres, PHPUnit

skills

proficient
- Swift, SwiftUI, XCTest, Fastlane, Swift Package Manager
- CI/CD (GitHub Actions), Figma, Linear, Xcode, Git

familiar
- UIKit, AppKit, WidgetKit, CoreBluetooth, GraphQL
- Instruments, xcodegen, cocoapods
- Objective-C, Rust

education

Rochester Inst. of Technology

b.s. computer science
- codeRIT, BrickHack, Society for Software Engineers, RIT Singers
- Notable courses: Distributed Algorithms, Programming Skills in Rust, Graphics Programming, Interactive Music (VR)

University of Washington ↑transferred

b.s. computer science
b.m. music composition
- DubsTech, UW Chorale, Film Club
- Notable courses: Interactive Programming, Human Centered Design

projects

Cabinette

macOS app for organizing music discography, built for composers/producers: https://cabinette.app
- Shipping TestFlight Beta
- Swift Data

BrickHack
- iOS app for BrickHack 6, shipped to App Store
  - 600+ attendees could view live schedule, event resources
- Led development on a fully responsive event website. 10k+/mo unique visitors.

peterkos.me blog
- 3,000+ views
- "A Swift Kick in the LSP"
- "Value-Oriented Testing"
- "Const Generics in Rust"
  - Front Page on HackerNews

open source
- swift package manager
  - merged fixes for cross-compiling dependency checking
  - adds support for building iOS outside of Xcode
- firefox iOS
  - merged fixes for accessibility contrast bugs
- homebrew
  - brew.sh mobile website