Colin Tremblay

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EDUCATION

Grinnell College, Grinnell, IA   May 2014
Bachelor of Arts in Computer Science with Honors   Dean's List (1 Semester)

RELATED EXPERIENCE

Staff Software Engineer   October 2023 – present
Okta   Denver, CO (Remote)
- Currently the sole engineer building the Okta Personal iOS app.
  - Migrated from CocoaPods to Swift Package Manager and moved the CI/CD system onto CircleCI.
  - Significantly improved app performance by profiling the application and identifying several issues with our encrypted local cache.
  - Added the ability to share logins, updated the app to conform to Apple's HIG, improved VoiceOver throughout.
- Implemented a number of unshipped solutions, including:
  - A macOS app, using the existing SwiftUI codebase and build tooling.
  - A backwards and forwards compatible solution for storing additional data types in Okta Personal, including credit cards, addresses, secure notes, and passkeys.

iOS Engineer   January 2021 - October 2023
WithUno, Inc.   Denver, CO (Remote)
- Primary engineer on the iOS, iPadOS and macOS Uno app, which was built using a single SwiftUI codebase.
  - Implemented a secure, passwordless login using SecureEnclave and biometric authentication.
  - Added app extensions, including a Safari Web Extension and an AutoFill Credential Provider (which includes a working passkey implementation and local push notifications for copying 2FA codes to clipboard).
  - Built a testing and distribution pipeline using XCTest, fastlane, and Xcode Cloud.
  - Handled schema validation and migrations of our end-to-end encrypted vault using JSON Schema.
  - Built a password import flow that handles exports from over a dozen common password managers.
  - Used Shamir's Secret Sharing to create a social recovery flow for Uno accounts.

Staff Software Developer, Team Lead   June 2014 – January 2021
Aetna, a CVS Health Company   Denver, CO
- Built the Aetna Health iOS app from scratch.
  - Served as Team Lead for a group of up to 10 software developers and QA engineers and represented that team at SAFe plannings with the greater Aetna Digital org.
  - Architected the XCUI Testing strategy.
- Assisted with the initial phases of the Attain by Aetna application.
  - Collaborated directly with Apple on this project.
- Worked on a number of now-defunct projects, including iTriage, iTriage Essentials, WellMatch, and Aetna Boost.
  - Led the transition from Objective-C to Swift.
  - Worked with Apple engineers and designers in Cupertino to make these products feel more at home in the Apple ecosystem.

OPEN SOURCE CONTRIBUTIONS

- An indentation feature to better match default Xcode behavior in SwiftFormat.
- Changed the structure of error handling in Google's Swift client and auth library.
- Added Swift Package Manager support to the argon2 C and Swift libraries, fixed SPM support in ecoji-swift.
- Fixed documentation mistakes in Apple's Swift Crypto.
- Fixed a bug in fastlane with distributing builds in TestFlight.
- Discovered and assisted in fixing a major crash in Alamofire.

SKILLS

iOS • macOS • Xcode and Xcode Cloud • Swift • SwiftUI • Objective-C • XCTest and XCUITest • Swift Package Manager
Git • SAFe and other Agile Methodologies • CocoaPods • CircleCI • TDD • AppStoreConnect and TestFlight • fastlane