

RÉSUMÉ

Aria Bolour

Senior iOS Engineer & Apple Platform Architect — eight years building Apple-platform software where failure is expensive: digital identity, trading, and payments used by millions.

Yerevan, Armenia · Open to relocation (US, Canada, Europe) · bolouraria@gmail.com · github.com/ariabolour · linkedin.com/in/ariabolour

PROFILE

Senior iOS Engineer with 8 years building scalable applications across the Apple ecosystem in Swift, SwiftUI, and UIKit. I specialize in mobile architecture, SDK development, performance, and security for banking, fintech, and payments products used by millions — including a KYC identity-verification SDK adopted by five financial institutions, processing 6,000,000+ authentication sessions, where I own architecture, security design, and release engineering end to end. I also work in Go on the backend, with CI/CD through Fastlane and GitHub Actions.

EXPERIENCE

08/2023 — Present
Remote

iOS Engineer & Backend Developer

BankID — KYC identity-verification SDK for a national digital-identity platform

— Architected the SDK as 16+ modular, self-contained flows (authentication, OTP, liveness detection, document capture, deep linking) behind a stable public API, distributed via Swift Package Manager — adopted by five financial institutions, processing 6,000,000+ authentication sessions (~50,000 daily users).

- Implemented banking-grade security: payload encryption, code obfuscation, and on-device biometric data handling aligned with each partner bank's compliance and security reviews.
- Developed a custom VideoCoding XCFramework for liveness video capture and on-device encoding.
- Established release engineering and CI/CD — versioning, partner-brand theming, RTL localization — and delivered full feature parity with the Android SDK.
- Developed backend services in Go (Echo, GORM, PostgreSQL): REST APIs and identity-verification integrations supporting the KYC flows.
- Mentored iOS engineers, led code reviews, and coordinated integration with partner-bank teams.

05/2025 — Present
Parallel with BankID

Senior iOS Engineer

Saraf — stock- and crypto-trading application

- Modernized a production trading app to a modular architecture: MVVM-C with Repository and Use Case layers across 13+ feature modules.
 - Designed reusable components adopted across the app: a typed networking layer, a live market-data service, and a design system used on every screen.
 - Developed core trading features in SwiftUI: portfolio management, trade validation, price charts, and secure onboarding with OTP and KYC.
 - Delivered a WidgetKit extension providing live market data on the Home Screen, and unit tests for repositories, use cases, and view models.
 - Promoted within the first year and received an Outstanding Performance award.
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11/2023 — 12/2024

Remote

iOS Engineer

Coinlocally — live cryptocurrency exchange

- Improved the crash-free session rate from 85% to 98% by eliminating memory leaks and race conditions.
- Modernized concurrency with Swift's actor model, replacing ad-hoc threading and improving stability.
- Led an incremental SwiftUI migration from UIKit and refactored legacy Objective-C to Swift with no rewrite and no feature freeze.
- Architected a custom socket-based layer for real-time market data, maintaining consistency under high-frequency updates, and optimized memory and rendering performance across critical trading screens.

06/2022 — 09/2023

iOS Developer

Hamrah Card — mobile payments application

- Delivered continuous releases for a payments app serving 5,000,000+ users, maintaining business continuity in a high-pressure production environment.
- Led performance optimization initiatives, reducing loading times by 12% and improving overall performance by 20%.
- Improved the crash-free rate to 98.9% through systematic profiling, debugging, and architectural fixes, and reduced bug count by 7% through cross-functional refactoring of legacy code.

PROJECTS

2023 — 2024

Contract, GCO Apps

HeyWeather

Lead iOS Engineer — multi-platform weather application

- Developed a weather app from one Swift codebase across iPhone, Apple Watch, macOS, and visionOS with shared domain logic and platform-specific UI.
- Delivered WidgetKit widgets, Live Activities, and Dynamic Island integrations driven by the app's own data pipeline.

iOS Client & Go
Backend

DentaPilot

AI-assisted dental practice application

- Designed the application end to end: SwiftUI client, Go (Echo, PostgreSQL) backend, and OpenAI chat and voice integration.
- Integrated Whisper transcription and text-to-speech within a threaded conversation model.

Digital Signature iOS
Application

Hamoon

Certificate issuance and document signing

- Developed certificate issuance and document signing using X.509 certificates, Keychain secure storage, and Face ID / Touch ID authentication.
- Designed a protocol-oriented, testable core with XCTest and XCUITest coverage for cryptographic utilities and view models.

LEADERSHIP

- Set architecture direction and engineering standards across teams; enforced quality through structured code reviews.
- Mentored iOS engineers from onboarding to independent feature ownership; interviewed candidates for iOS roles.
- Planned releases and sprints with product and design; owned App Store submission end to end; collaborated cross-functionally with backend, Android, and partner-bank teams.

SELECTED RESULTS

Scale

6M+ authentications processed

5 financial institutions on one SDK

5M+ users on Hamrah Card

Performance

Loading times -12% (Hamrah Card)

Overall performance +20% (Hamrah Card)

~50K daily users (BankID)

Reliability

98.9% crash-free (Hamrah Card)

85% → 98% crash-free (Coinlocally)

8 years across banking, fintech, payments

SKILLS

Apple platforms

Swift · Objective-C · Swift Concurrency

SwiftUI · UIKit · Combine

WidgetKit · ActivityKit · StoreKit

Core Data · Core ML · CloudKit · watchOS · visionOS

Systems & security

Clean Architecture · MVVM-C · TCA

Keychain · Face ID / Touch ID · X.509

OAuth · Encryption · Code Obfuscation

Go (Echo, GORM) · PostgreSQL · REST/GraphQL/gRPC

Practice

SDK design · Swift Package Manager · XCFramework

Fastlane · GitHub Actions · TestFlight

XCTest · XCUITest · TDD

Mentoring · code review · App Store ownership

EDUCATION

Computer Engineering

Islamic Azad University

Completed undergraduate coursework. Top-ranked student during the first four semesters; invited to teach Java and Swift programming.