Chaz Carey

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Summary

Senior Mobile Engineer with 11+ years architecting and scaling production-grade iOS, Android, and cross-platform apps across insurance, fintech, and healthcare domains. Proven track record in Swift, Kotlin, and React Native, building offline-first, high-performance, and secure systems. Expert in CI/CD automation, API optimization, and system integration. Passionate about designing clean architecture, mentoring teams, and delivering reliable software that scales smoothly to thousands of users.

Professional Experience

Duck Creek Technologies   May 2021 - Jul 2025
Senior Native Mobile Engineer/Lead Mobile Engineer   *Boston, MA*

- Architected and implemented SwiftUI + Combine feature modules using Core Data and background sync pipelines, enabling offline claims and policy management for field agents.
- Engineered Android Jetpack Compose components integrated with Room, WorkManager, and Coroutine Flows, supporting parallel data sync and improving agent productivity by 35%.
- Led a cross-platform mobile team of 6 engineers, defining coding standards, conducting code reviews, and driving sprint planning to ensure consistent delivery quality.
- Developed React Native bridges for OCR scanning, e-signature, and push messaging, unifying native and hybrid components across the platform.
- Optimized GraphQL + REST API integration using caching, pagination, and delta updates, cutting network payload size by 40%.
- Automated end-to-end CI/CD pipelines with Fastlane, Bitrise, and GitHub Actions, incorporating static analysis, code signing, and st aged rollouts for zero-downtime deployments.
- Tuned performance through Instruments and Android Profiler, reducing app startup latency and frame-drop rate by 35 %+.
- Integrated Firebase Analytics and Crashlytics with custom event tracking, improving observability and reducing crash frequency by 30 %.
- Designed notification workflows with APNs and FCM using deep linking and silent push updates to drive timely user engagement.
- Delivered secure authentication workflows with JWT, biometric validation, and keychain-based session storage.
- Mentored cross-functional teams on architectural design, CI/CD best practices, and performance optimization techniques while colla borating with product and backend leads to align technical strategy.
- Partnered with backend engineers to refactor API response contracts, standardizing error handling and schema versioning.

IWP Capital   Dec 2017 - Mar 2021
Senior Mobile Developer/Lead Mobile Engineer   *Fort Worth, TX*

- Built SwiftUI + Combine trading modules integrated with real-time WebSocket feeds, providing millisecond-level market updates and order confirmations.
- Implemented Kotlin Compose trading screens with Room persistence and WorkManager, enabling offline-first trade execution and background retry logic.
- Integrated Plaid and Stripe APIs using RSA/AES encryption and secure token exchange to achieve PCI-DSS compliance.
- Developed React Native dashboards for real-time portfolio visualization and event-driven push notifications.
- Automated release pipelines using Jenkins, GitHub Actions, and Fastlane, including code linting, test automation, and release signing.
- Built feature flag management with Firebase Remote Config for progressive rollouts and regulatory updates.
- Partnered with compliance teams to implement JWT-based session management with biometric re-verification.
- Designed BigQuery + Amplitude analytics pipelines to capture user behavior and drive product iteration decisions.
- Refactored legacy MVC codebases into modular MVVM architecture, improving scalability and test coverage.
- Introduced automated integration testing for financial transactions, reducing production issues by 45%.
- Enhanced network resiliency by optimizing API retries, connection pooling, and background sync scheduling.
- Provided technical leadership in sprint planning, code reviews, and incident response rotations.

Reveleer   Aug 2013 - Nov 2017
Native App Developer   *Loudoun County, VA*

- Created offline-capable iOS and Android apps with Core Data and Room databases supporting field record collection.
- Integrated FHIR / HL7 APIs with background synchronization and data validation for real-time patient data sharing.
- Designed secure data layers using AES-128 encryption, biometric access control, and keychain-based credential management.
- Automated continuous integration with Jenkins and Fastlane, integrating static analysis, UI testing, and code coverage reporting.
- Developed Appium and Espresso test suites covering >95% of critical user workflows, increasing release confidence.
- Optimized image-processing pipelines using background threads and compression algorithms, improving upload throughput by 50%.
- Collaborated with compliance teams to prepare audit documentation and ensure all releases passed HIPAA certification.
- Refactored legacy monolithic modules into clean, testable layers aligned with modern MVVM principles.

- Built proactive crash and performance monitoring dashboards in Firebase Test Lab to detect regressions pre-release.
- Implemented background upload queue manager to maintain data integrity during app suspensions.

Education

University of Texas at Austin   **2009 - 2013**
Bachelor of Science, Computer Science   *Austin, TX*

Core Technical Strengths

- **Languages**: Swift, SwiftUI, Objective-C, Kotlin, Jetpack Compose, Java, React Native, Flutter
- **Architecture**: MVVM, Clean Architecture, Repository Pattern, Modularization, Dependency Injection (Hilt, Swinject), Offline-First Systems
- **APIs & Cloud**: REST, GraphQL, WebSockets, Firebase (Auth, Firestore, Crashlytics, Analytics), AWS (Lambda, Cognito, S3, AppSync)
- **CI/CD & DevOps**: Fastlane, Bitrise, Jenkins, GitHub Actions, Docker, TestFlight, Firebase App Distribution
- **Security & Testing**: XCTest, Espresso, JUnit, Appium, OAuth2, JWT, Keychain / Keystore, AES-256 Encryption
- **Performance & Analytics**: Xcode Instruments, Android Profiler, Firebase Performance, Datadog, Systrace
- **Collaboration**: Jira, Confluence, Figma, Slack, Teams

Projects

Duck Creek

- **Claims Management App:** Architected offline-first SwiftUI and Compose modules with encrypted storage, biometric login, and real-time sync.
- **Digital Policy Wallet:** Built cross-platform React Native SDK for digital ID cards and renewal alerts with background data refresh.
- **Agent Analytics Dashboard:** Created Firebase-based analytics layer visualizing field agent metrics and app reliability KPIs.

IWP Capital

- **Trading Platform:** Designed end-to-end trading experience with biometric login, real-time data feeds, and offline trade caching.
- **KYC Onboarding System:** Developed secure identity verification workflow using VisionKit OCR, Face ID, and AWS Cognito federation.
- **Portfolio Insights Dashboard:** Implemented cross-platform React Native dashboard with Amplitude tracking and live portfolio updates.

Reveleer

- **Medical Records Capture App:** Designed for field clinicians to capture and sync medical records with offline storage and conflict resolution.
- **Provider Compliance Portal:** Mobile app supporting audit validation workflows and digital sign-off with biometric verification.
- **Encrypted Upload Service:** Developed multi-threaded upload engine handling large encrypted payloads using WorkManager and URLSession.