

Andrew Michael Talbot Senior Mobile Engineer

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PROFILE

Accomplished Senior Mobile Engineer with 9 years of comprehensive experience in software engineering, specializing in mobile application development. Expert in **React Native**, and **Flutter**, with a proven track record of creating high-quality mobile solutions for various industries including healthcare, finance, and tourism. Proficient in **Java**, **Kotlin**, **Objective-C**, and **Swift**, with strong leadership skills and a commitment to continuous improvement. Adept at full-cycle development, deployment to app stores using **TestFlight**, and internationalization. Extensive experience in backend integration using **Java**, and **Python** technologies.

Demonstrated leadership in **DevOps**, ensuring seamless **CI/CD** processes, and collaborative development practices. Renowned for innovative solutions, enhancing app performance, and optimizing user experiences.

SKILLS

- **Languages:** JavaScript, Dart, TypeScript, Objective-C, Java, Kotlin, Python, Swift
- **Frameworks:** React Native, Flutter, Maui, Ionic
- **Libraries:** Jest, JUnit, Mockito, XCTest, TestFlight, Fastlane, Espresso
- **Paradigms:** Microservice Architecture, Agile Methods, System Design Pattern, MVC/MVVM Architecture
- **Other:** AWS S3/SNS/SQS, Google Play Store, Apple App Store

PROFESSIONAL EXPERIENCE

Senior Mobile Engineer/Lead, Beyond Key, Chicago, Feb 2021 - Jun 2024

- When I work for **BayCare**, one of my clients, developed a cross-platform mobile application called **Doctor Decision Support System** for doctor appointments and medical decision support using **React Native**, leveraging native accessibility features of **iOS (VoiceOver)** and **Android (TalkBack)** to ensure an inclusive user experience.
- Utilized Angular in conjunction with frameworks like **Ionic Framework** and **Native Script** to develop cross-platform mobile applications, leveraging **Angular's** robust features to ensure seamless performance and a high-quality user experience across different mobile devices.
- Developed cross-platform mobile applications using **MAUI** (Multi-platform App UI) within the Microsoft Stack.
- Proficient in leveraging **Angular** and **Capacitor** to build responsive, cross-platform apps for iOS and Android.
- Collaborated with cross-functional teams to deliver high-quality native mobile applications, ensuring smooth performance across various **Android** and **iOS** devices. Implemented advanced networking features in native iOS applications using **Swift**, including **RESTful API** integration and offline data caching.
- Developed and maintained a robust backend using **Golang** for a mobile application, implementing RESTful APIs that facilitated seamless data integration and real-time communication, resulting in a 30% improvement in app performance and user satisfaction.
- Proven expertise in utilizing Jetpack libraries for mobile app development, including **Jetpack Compose** for modern

UI design, Room for efficient data storage, **LiveData** and **ViewModel** for responsive and maintainable architectures, and **WorkManager** for reliable background task management, resulting in robust and scalable **Android** applications.

- Leveraged Microsoft's **MAUI** framework to design and develop cross-platform mobile applications, enhancing user engagement through intuitive UI/UX. Successfully integrated complex business logic and third-party APIs, significantly improving operational efficiency and user experience across iOS and Android platforms.
- Reduced manual deployment time by over 50% and increased release predictability by automating build and deployment processes with **Fastlane** and custom **Python** scripts.
- Improved test automation and reliability in **React Native** and **Flutter** environments by employing advanced testing frameworks and libraries such as Jest, Mocha, and XCTest.
- Led the development of an enterprise-level web application using **Angular 7**, implementing complex features such as dynamic form handling and state management with **NgRx**, resulting in a highly interactive and efficient user experience.
- Developed a dynamic cross-platform mobile app using **Ionic**, utilizing its modular components and integration with Angular to create a responsive, user-friendly interface and efficient data handling.
- Enhanced application scalability and code maintainability by 30% through the integration of modern architectural patterns such as **MVVM**, **MVP**, and **Clean Architecture**.
- Architected and developed a customer portal using **Angular 8**, integrating RESTful APIs and employing advanced component-based design to deliver a scalable and performant application with intuitive user interactions and real-time data updates.
- Expertise in building user interfaces, implementing features, and optimizing performance using **Angular**.
- Boosted team productivity and enhanced project tracking by effectively utilizing **Microsoft Teams** and **Jira**, which facilitated seamless communication and efficient coordination of project milestones across distributed teams.

Lead Mobile Application, 8KMILES, San Ramon, Nov 2017 - Feb 2021

- Led the design and development of a cross-platform health monitoring application using **React Native** for seamless functionality on both **iOS** and **Android**, enhanced with **Kotlin** for **Android**-specific features. Adopted **Screen**, **Container**, **Component** patterns to ensure the code architecture was both scalable and maintainable.
- Oversaw the beta-testing phase using **TestFlight** and Google Play Beta, incorporating user feedback to fine-tune the application, leading to a 25% boost in user satisfaction before the official release.
- Deep experience with Jetpack libraries in Android development, leveraging **Jetpack** Compose for intuitive UI design.
- Played a key role in designing and developing a voice-based social networking platform using Java for Android and **Objective-C** for **iOS**, resulting in a 25% increase in user engagement by enabling community discussions via voice commands, shifting away from traditional text-based inputs. Implemented voice recognition algorithms and optimized user interface for seamless voice interaction.
- Developed and maintained common core feature libraries related to audio playback using **Gradle**, **CocoaPods**, and **Carthage**, which standardized audio components across the team and decreased integration time for new developers by 20%.
- Developed cross-platform mobile applications using **Cordova**, leveraging its ability to create native-like experiences across **iOS**, **Android**, and **Windows platforms**.
- Developed an e-learning mobile application with Flutter, establishing a unified codebase for **iOS** and **Android**, while employing **Swift** to integrate native **iOS** features and enhance the user experience.

- Conducted comprehensive A/B testing to identify the most effective UI/UX designs, which increased conversion rates by 15% in the first three months following launch.
- Orchestrated the integration of **AWS SNS** for efficient push notification management, achieving over 99% delivery rates and significantly enhancing user engagement.

Mobile Developer, Trianz, Santa Clara, Oct 2015 - Aug 2017

- Directed the development of an instant messaging app, utilizing **Kotlin** for **Android** and **Swift** for **iOS** to maximize performance and leverage platform-specific features.
- Implemented end-to-end encryption using the **Signal Protocol** in the instant messaging app, significantly enhancing data security and user privacy, and ensuring compliance with stringent **GDPR** and **CCPA** standards.
- Developed and optimized a feature-rich mobile application using **Ionic Framework 4**, incorporating advanced components and Capacitor plugins to deliver a seamless cross-platform experience with enhanced performance and native functionality.
- Converted legacy **Objective-C** code to **Swift**, improving code readability and maintainability while ensuring backward compatibility.
- Leveraged **Firebase** for analytics and crash reporting, which helped monitor app performance and user behavior, reducing crash rates by 40% and enhancing app stability.
- Introduced the use of containerization with **Docker** and **Kubernetes** in the app development lifecycle, which facilitated a more efficient, scalable, and consistent deployment process across all environments, cutting down integration issues by 30% and speeding up release cycles.
- Enhanced cross-functional team collaboration using **Agile** methodologies, employing **Jira** for project management and **Slack** for daily communications, which improved team productivity and project transparency.

EDUCATION

Bachelor of Science in Computer Science

University of San Diego, Apr 2011 – May 2015

My experience at the University of San Diego has been exceptional. The engaging curriculum and knowledgeable faculty have equipped me with the essential knowledge and skills to excel in my future professional endeavors. This academic experience has provided me with a strong foundation to thrive in my chosen field.

PROJECTS

Doctor Decision Support App

React Native, Fastlane, Firebase, Cerner API, Firebase Analytics, GraphQL

Created a mobile application aimed at assisting doctors in making informed clinical decisions, using React Native for hybrid platform and contributed to a 20% improvement in diagnostic accuracy and a 30% reduction in time spent per consultation, as reported by the client.

Instant Messaging App

Kotlin, Swift, AWS SNS, AWS S3, Firebase Analytics

Developed a feature-rich instant messaging application tailored for community groups, using Kotlin for Android, Objective-C for iOS and successfully deployed the app on both Android and iOS platforms, achieving a user base of over 10,000 within the first six months after launch.

