Aaron Knox

Senior Mobile Developer

✉ aronknox0608@gmail.com 📞 + 1 765 267 3627 📍 Texas, US 📅 08/06/1993 👤 Male

SUMMARY

With over 8 years of experience in the IT industry, I have spent the last 7 years specializing in Android, iOS, and web solutions. As a Senior Mobile Application Developer, I bring extensive expertise in crafting mobility applications, encompassing both Mobile Web and native apps for Windows Mobile, as well as Android and iOS devices. Throughout my career, I have successfully planned, designed, developed, and implemented large-scale projects, overseeing them from conception to completion. I am proficient in the Android and iOS application development lifecycle, from initial creation to deployment on Google Play and the Apple Store.

PROFESSIONAL EXPERIENCE

Senior Mobile Developer (Kotlin, Java, Objective-C, Swift, React Native, Firebase, AWS, Java, Golang, Junit, XCTest, Fastlane, Bytecode, Smali, Proxy)

Beyond Key | Remote 🔗
02/2019 – 09/2023 | Chicago, USA

- Analyzed and designed new mobile features based on understood business requirements through meetings.
- Worked on payment gateways and conducted security testing for payment methods, including credit and debit card details.
- Experienced in utilizing various **AWS** services such as **EC2**, **VPC**, **IAM**, **S3**, **CloudFront**, **CloudWatch**, **Glacier**, **Route 53**, **EMR**, **CloudTrail**, **SNS**, **SQS**, **EBS Volumes**, **Lambda**, and **Elastic IPs**.
- Configured **AWS IAM** and Security Groups in both Public and Private Subnets within **VPC**.
- Deployed complex infrastructures using web-based backend, **mBaaS** (Mobile Backend as a Service), and **microservices** (with **Java Spring Boot** and **Golang**).
- Managed **DevOps** for backend APIs and microservices using **Kubernetes**, **Docker**, **Terraform**, **and** Ingress.
- Developed mobile applications using **Swift**, **Objective C**, **Kotlin**, **Java**, and **React Native**.
- Implemented client-side validation using **JQuery** and **JavaScript**.
- Proposed methods to enhance efficiency, application development, and performance.
- Collaborated with web developers to create and maintain a robust framework supporting apps/web.
- Utilized various **Android** and **iOS** development frameworks, as well as continuous integration frameworks such as **GIT**, **HockeyApp**, and **Fastlane**.
- Performed tests using **JUnit**, **Espresso**, **XCTest**, and **Appium**.
- Enhanced our mobile app by integrating built-in features from 3rd-party apps through decompiling, parsing HTTP/HTTPS/SOCKS requests using proxy tools like **mitmproxy** and **charlesproxy**, and simulating the requests.
- Identified and troubleshooted issues with frameworks and component libraries, providing assistance to development teams in their utilization.

Mobile Back-end Developer (Firebase, Java Spring Boot, Kubernetes, Docker, Terraform, Ingress, Rest API, GraphQL, Swift, Kotlin, React)

Intuit Inc | Remote 🔗
11/2017 – 11/2018 | Mountain View, USA

- Deployed complex infrastructures using a web-based backend, **Firebase**, and **microservices** (with **Java Spring Boot**).
- Managed **DevOps** for backend APIs and microservices using **Kubernetes**, **Docker**, **Terraform**, and **Ingress**.
- Converted existing microservices to **GraphQL** from REST API for better efficiency.
- Provided guidance on API usage with iOS **Alamofire**, **Android Retrofit**, **React Apollo** example code, and **DociQL** documentation.

Senior Web & App Developer (React, React Native, Object-C, Java)

CodeFulcrum | Remote 🔗
10/2015 – 08/2017 | San Francisco, USA

- Developed a hybrid mobile platform to facilitate classical music concerts using **JavaScript** and **React Native**, resulting in an 85% code share between **iOS** and **Android** and reducing development time by 50%.
- Architected the application following the Atomic Design Principle, leading to a 33% increase in the reusability of components.
- Converted Redux Thunk action creators to Promises and Lifecycle Methods to asynchronous functions using **ES7 async/await** to better manage **ReactJS** level state, reducing Redux container development time by 80%.
- Developed a user-friendly mobile app for selling online products, packages, and memberships on Android and iOS.
- Imported client-provided data for customers, products, and other pricing rules.

- Collaborated closely with clients and a team of developers to address client concerns and devise best practices for implementing client-desired functionality.
- Worked as part of an Agile/Scrum development team.
- Provided assistance to others in localizing and correcting software defects by creating documentation and other materials to support ongoing development activities.

EDUCATION

University of Texas at San Antonio   2010 – 2014
Bachelor's Degree in Computer Science

SKILL

- iOS, Android, Android Reversing(Bytecode, Smali, Arm86/64 Assembler), Kotlin, Java, Objective-C, Swift, React Native, Flutter Dart

- Web based Backend, mBaaS(Mobile Backend as a Service), Firebase, Backendless, Microservices(with Java Spring Boot, Golang)

- JavaScript / TypeScript / Express.js / Node.js / Microservice

- Python / Django / Flask / PyTorch / TensorFlow / OpenCV / PyQt / Engine

- Go / Gin / Concurrency / Microservice

- SQL / MySQL / PostgreSQL / RDS(AWS) / Oracle

- Docker / Kubernetes / Jenkins / CI, CD / Helm

- NoSQL / MongoDB / DynamoDB(AWS)

- Java / Spring Boot / JPA / Hibernate / gRPC / Microservice

- C++ / Engine / System / OpenCV / Qt / Application

- C# / Asp.Net / Net Maui / WPF

- AWS / EC2 / RDS / S3 / Lamda / DynamoDB / EKS

- GCP / GKE / Function / Firestore / Vision API

- Chrome Extension

INTEREST

Football   Swimming

Basketball   Climbing