Edward Alder

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Results-driven software engineer with expertise in scalable mobile applications and operational efficiency. Proven ability to automate complex manual processes, raise the quality bar on mobile apps with 1000+ individual contributors, and deliver impactful solutions for millions of users.

EXPERIENCE

Amazon — Seattle, WA ● **Software Development Engineer II** | 08/2022 - Present

Worked in the App Release and Quality team to develop software to release the Amazon Mobile shopping app to 100s of millions of customers across the globe and maintain a high quality bar for new code in the shopping app.

- **Mobile Release:** Worked on a web portal built in **React and NodeJS** to support manual efforts to release the Amazon mobile shopping app. Reducing complexity and time to delivery of development efforts in the mobile shopping app to release for customers. This software enables seamless new feature delivery into binaries, QA signoff and testing, and releases for 120+ development teams and 100s of millions of customers of the Amazon Shopping app.

- **Automation**: Developed software to automate build creation of the mobile shopping app with **AWS Step Functions** and **AWS Lambda**. Migrated a manual build process to a **CI/CD approach**, resulting in **years of additional testing time** for development teams and **100s of hours of yearly manual work being eliminated** for the app release team.

- **Mobile Quality**: Extended centralized guardrail frameworks for the Amazon Shopping app development lifecycle to block customer facing incidents in the early stages of development (compilation, unit testing, integration testing). I **developed unified solutions to allow 120+ teams to set app debug state for local and remote testing**, resulting in increased test fidelity and the shifting of quality mechanisms further left in the development lifecycle.

- **Mobile Resiliency:** Using **Java**, **AWS DynamoDB,** and **AWS Lambda**, delivered software that reduced the crash rate of the mobile app worldwide by detecting and routing crash reports to 120+ partner teams for resolution. Resulted in the **reduction of millions of crash occurrences** for the Amazon mobile app worldwide.

Frontdoor Inc. — Boulder, CO ● **Mobile Developer Intern** | Summer 2021

Supported a growing mobile team developing the iOS and Android ProConnect app. Developed a new customer facing feature to the app which would allow for customers to video call with experts without having to leap the ProConnect app.

- **Mobile Technology:** Worked to bring a new customer facing feature by integrating the Streem video calling SDK into the iOS and Android app. Used the **Swift & Kotlin** and mobile application architecture (**MVVM**) in addition to design patterns like **Adapter** and **Singleton**.

- **Refactoring:** Onboarded to a large pre-existing **Java** codebase and refactored components to use **Kotlin**. Maintained a high bar with unit test coverage to ensure refactoring efforts were functional.

CU Senior Capstone Project — Boulder, CO ● **Mobile Developer** | 08/2021 – 05/2022

In partnership with the CU Boulder E-BIO department, created a mobile app from the ground up. The app, BATP Connect, is designed to allow users to collect and submit information about apple trees to the Boulder Apple Tree Project (BATP). The app was published to the iOS App Store and Google Play Store and made with **React-Native**.

- **Cross-Platform Mobile Development:** Worked in a team of 5 to develop and publish a cross-platform mobile app with React-Native. Using **SQLite**, **AWS RDS PostgreSQL**, and **AWS Amplify**, delivered a responsive mobile app with **offline and online functionality**.

EDUCATION

University of Colorado at Boulder — **BS** in **Computer Science** | **Aug 2018 - May 2022**

TECHNOLOGY SUMMARY

Skills: JavaScript/TypeScript, Python, CSS, HTML, React/React-Native, Objective-C, Swift + SwiftUI, Flutter, Java + Kotlin
Technologies: AWS, Firebase, Figma, macOS, Ubuntu, Windows