JOHN ESCALONA

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PROFESSIONAL EXPERIENCE

Software Developer Analyst
Mercury Insurance | 2021 – Present

- **Accelerated QA Testing Workflow by enabling in-app environment switching,** thus removing significant bottlenecks during the testing phase and **reducing QA testing iteration time by 50%.**

- **Enhanced Code Quality** through implementation of **Dependency Injection**, increasing unit test coverage from **0% to 70%** and improving codebase maintainability.

- **Boosted User Retention & App Ratings** by deploying an **In-app feedback request** system, driving a significant uptick in app store engagement and customer satisfaction.

- **Led Feature Enablement Strategy** via integration of **low-code walkthroughs** and **remote dynamic messaging**, simplifying feature rollouts and improving feature adoption rates.

- **Modernized App Maintenance and App Update Framework** using **Firebase Remote Config**, ensuring real-time and consistent cross-platform maintenance and app update alerts with zero code redeployments.

- **Built an API mocking framework tool** with **NodeJS/Express**, enabling frontend teams to test edge cases independently of backend readiness.

- **Optimized Frontend Performance** by designing a dynamic **theming and asset management system**, reducing load time and ensuring brand consistency across environments.

TECHNICAL SKILLS

- **Languages & Frameworks:** Dart/Flutter, JavaScript, TypeScript, Java, Node.js, SpringBoot, Agile

- **Mobile & Web Development:** Flutter, Angular, React, WebView

- **Backend & API:** REST APIs, NodeJS, ExpressJS, Firebase, NoSQL, SQL

- **DevOps & Tools:** Git, Jenkins, Firebase Remote Config, Agile/Scruma

- **UI/UX & Design Systems:** Tailwind CSS, Responsive Design

- **Testing & QA:** Unit Testing, Mock APIs, Dependency Injection

PROJECTS

- **Algorithm Visualizer** React app that demonstrates core algorithms like Binary Search, Merge Sort, and Quick Sort via real-time animations. Enhances algorithm learning through interactive visuals.

- **Truss Solver** Web-based engineering tool built with **React** that calculates node displacements, internal/external forces, and stress across structural trusses.

- **Ifti** *(Workout Companion App)* Cross-platform **Flutter** application for managing workout routines that features guided timers, session tracking, and workout summaries. Deployed on Android.

EDUCATION

Bachelor of Science in Computer Science
California State Polytechnic University, Pomona | 2018 – 2020