Alejandro Rubio

Austin, Tx | 954 - 861 - 9467 | rubio.alejandro7@gmail.com

Education

University of Central Florida   May 2022
Bachelor of Science in Computer Science

Notable Coursework*:* Discrete Structures and Algorithms, Processes of Object-Oriented Software, Web Based
Information Technology, Operating Systems, Secure Operating Systems and Administration, Robot Vision

Skills

Languages / Frameworks: Java, Typescript, JavaScript, Angular, React, Python, PostgreSQL, Spring Boot
Technologies: Git, Docker, Kubernetes, Azure DevOps, Linux

Experience

General Motors   (2023 - Current)
Full-Stack Software Engineer
Developed and optimized the UI / API for the Load Balancer Automation web application within Galileo,
General Motors' cloud services platform and process automation hub.
Load Balancer Automation UI:
- Engineered a full-stack solution using Angular (frontend) and Spring Boot (backend), resulting in $7.2 million annual productivity savings.
- Optimized data flow and persistence, leading to over $700k in savings. Refactored data layer using JPA and Hibernate, improving database query performance by 40%, and implemented simple Java caching, reducing API response times by 60%
- Enhanced frontend architecture using Angular's reactive forms for complex, multi-step form management. Created reusable UI components and implemented lazy loading, decreasing initial page load times by 50%.

Certificate Automation Renewal:
- Designed and implemented an auto-renewal process for load balancer certificates, resulting in an estimated annual savings of $1.3 million.
- Automated compliance checks for certificate renewals, reducing manual intervention by 80% and ensuring adherence to industry standards.
- Led team effort to refactor legacy code, reducing technical debt by 20% and enhancing the maintainability of the certificate management system.

Motorola Solutions
Embedded Software Engineer Intern   (Summer 2020)
- Developed 3 Python scripts for Software Tools Team that organized hundreds of radio firmware versions in existing GUI using regex and string manipulation.
- Created several unit tests for these various scripts while employing industry standards.
- Contributed to the documentation of the Software Tools Team's best practices, improving onboarding efficiency by several hours.

Embedded Software Engineer Intern   (Summer 2021)
- Led investigations into field issues on the Current Projects Engineering Team which solves critical issues with in-field Motorola devices.
- Diagnosed and resolved over 6 customer issues using proprietary radio logging software, unit test creation, and real-time problem analysis.