

# ALAN ORDORICA

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SOFTWARE ENGINEER | JACK-OF-ALL-STACKS | TECH MAVERICK

## PROFESSIONAL SUMMARY

Software engineer with experience at leading technology companies specializing in automation, full-stack systems, distributed architectures, and passionate about designing scalable solutions eager to explore and AI-driven challenges and apply a continuous improvement mindset, delivering reliable, and impactful software innovations.

## TECHNICAL SKILLS

### Languages & Frameworks

✓ C/C++    ✓ JavaScript    ✓ TypeScript    ✓ ESP-IDF  
✓ Python    ✓ JSON    ✓ React    ✓ FreeRTOS  
✓ Go    ✓ Java    ✓ Node.js/Express

### Cloud & DevOps

✓ Docker    ✓ Ansible    ✓ CMake    ✓ SDN  
✓ Kubernetes    ✓ GCP    ✓ Bazel    ✓  
✓ Git    ✓ Pub/Sub    ✓ Splunk    ✓

### Embedded Systems

✓ ESP32    ✓ BLE  
✓ I<sup>2</sup>C    ✓  
✓ SPI    ✓

## WORK EXPERIENCE

### Google | GCP Networking

Software Engineer | SDN Platform Team

Sunnyvale, CA

May 2022 - December 2024

- Advanced load-testing framework development and automation, cutting test runtimes by **25%** and saving an estimated **1.5 SWE-years**, equivalent of manual debugging work by preventing scaling test failures and production outages through proactive bug and regression detection.
- Spearheaded implementation of new GCP customer feature by replicating support for **1,000+** virtual gateway nodes with high fidelity and introducing a new test grid--broadening test coverage, uncovering critical scalability issues and reducing false-negative test results and system bottlenecks by **35%**.
- Enhanced CI release pipeline reliability by proactively detecting and resolving regressions while rapidly addressing blocking failures, resulting in a **30%** decrease in release-related outages and significantly shortening developer feedback loops.
- Implemented robust enhancements to the load testing framework—migrating from legacy protocols, boosting system throughput, reducing failure flakiness and increasing test accuracy for large-scale deployments.
- Collaborated with cross-functional teams to streamline development and align testing strategies with business objectives, actively engaging in Agile practices including sprint planning and retrospectives, contributing directly to team productivity and velocity objectives.

### Apple

DevOps Engineer Intern | CI Tools - Site Reliability

Sunnyvale, CA

July 2020 - March 2021

- Installed and configured **200+** test racks housing **1,000+** devices, increasing overall availability by **50%**, reducing test scheduling wait times by **30%**, and boosting overall lab uptime by **20%**.
- Automated device provisioning and network monitoring and configuration using Python, Bash, and Ansible scripts, reducing setup time by over **70%** while achieving **98%** lab uptime consistently.
- Developed monitoring and remediation tools integrated with Splunk and internal dashboards, reducing device downtime by **27%** and increasing test execution success rates by **34%**.

### Independent Software Engineer

Software Engineer (Contract)

Remote

January 2020 - Present

- Developed modular React frontend and Node.js backend portfolio web apps with Docker Compose for local orchestration, enabling rapid environment setup.
- Developed Node.js RESTful microservices and ESP32-based automation projects using Python, Bash, and other tools, showcasing proficiency in hardware-software integration and system-level programming.

## PROJECT PORTFOLIO

- GhostPass:** Engineered an embedded solution integrating an RC522 RFID module and SSD1306 Mini OLED with an ESP32S3 via I<sup>2</sup>C/SPI in C/C++, delivering a robust prototype for secure access simulations and demonstrating deep hardware-software integration expertise.
- CitrusCV:** Designed and delivered a reusable LaTeX resume class and automation scripts, enabling streamlined document generation and highlighting proficiency in domain-specific language design.
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- Lume-finity:** Spearheaded development of a cross-platform Flutter app for Bluetooth-enabled hardware control, implementing BLE communication layers and intuitive UI to streamline IoT device management.
- Java Interpreter:** Developed Java-based language interpreter, designing lexer, parser, and runtime components to deepen understanding of compiler principles and showcase system-level software engineering skills.

EDUCATION

San Francisco State University  
Bachelor of Science in Computer Engineering

San Francisco, CA  
December 2019