ALAN ORDORICA

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

PROFESSIONAL SUMMARY

Software engineer with experience at leading technology companies in backend development, cloud computing, system automation, and distributed architectures. Driven to solve complex challenges using an iterative, AI-informed approach to design robust, scalable software and hardware solutions that enhance reliability and foster continuous improvement.

TECHNICAL SKILLS

Languages, Libraries & Frameworks

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

Cloud & DevOps

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

Embedded Sys

ESP32 | I^2C | SPI | BLE | GDB

WORK EXPERIENCE

Google | GCP Networking — Sunnyvale, CA
Software Engineer | SDN Platform Team — *May 2022 - December 2024*

- Operated and maintained critical GCP production systems, collaborating with SRE and cross-functional dev teams to streamline development, align testing strategies with business objectives ensure 99.99% uptime, enabling seamless deployments.
- 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.
- Designed and implemented scalable backend services supporting millions of users.

Apple — Sunnyvale, CA
DevOps Engineer Intern | CI Tools-Site Reliability — *July 2020 - March 2021*

- Led a team to design, wire, and deploy 200+ test racks housing 1,000+ devices; defined host configuration strategies for each rack's unique use case, driving a 50% increase in availability, 30% reduction in test scheduling wait times, and 20% boost in overall lab uptime.
- 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%**.

Full Stack Developer — Remote
Software Engineer (Contract) — *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^2C/SPI in C/C++, delivering a robust prototype for secure access simulations and demonstrating deep hardware–software integration expertise.
- **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.
- **CitrusCV:** Designed and delivered a reusable LaTeX resume class and automation scripts, enabling streamlined document generation and highlighting proficiency in domain-specific language design.

EDUCATION

San Francisco State University — San Francisco, CA
Bachelor of Science in Computer Engineering — *December 2019*