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

✓ C/C++	✓ JavaScript	✓ TypeScript	✓ Protobuf	✓ Node.js	✓ Git	✓ Pub/Sub	✓ OVS	✓ SPI	✓ CMake
✓ Python	✓ Java	✓ HTML	✓ React	✓ Spring Boot	✓ Ansible	✓ VMs	✓ FreeRTOS	✓ BLE	✓ Bazel
✓ Bash	✓ LaTeX	✓ CSS	✓ Flutter	✓ Docker	✓ Jenkins	✓ SDN Networking	✓ ESP32	✓ CAN	✓ Splunk
✓ Go	✓ Dart	✓ gRPC	✓ ESP-IDF	✓ Kubernetes	✓ GCP		✓ I²C	✓ JTAG	

WORK EXPERIENCE

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

- Drove 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 — Sunnyvale, CA
DevOps Engineer Intern | CI Tools - Site Reliability — *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 — 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 I²C/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.
- **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 from scratch, designing lexer, parser, and runtime components to deepen understanding of compiler principles and showcase system-level software engineering skills.

EDUCATION

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