ALAN ORDORICA

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Software Engineer | Backend Systems | Cloud & Embedded

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, Al-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 SQL NoSQL Go | JavaScript | JSON | Java | TypeScript React Node.js/Express ESP-IDF FreeRTOS



Embedded Sys ESP32 | I²C BLE GDB

Experience

Google

Software Engineer | Google Cloud SDN Platform

Sunnyvale, CA

May 2022 - Dec 2024

- Drove development of internal Python/C++ load-testing framework, implementing gRPC, protobuff and pub/sub based workflows and components to replicate networking control-plane behavior—reducing test runtimes by 25% and saving 1.5 SWE-years via regression detection.
- Spearheaded the design and developement of a VPC gateway and multicast VM controller feature into the framework—extending C++ control-plane emulation and authoring Python orchestration scripts—to replicate the production pub/sub communication between 1k+ VPC gateway components to each multicast VM controller, expanding the scope testing, uncovering critical scalability issues and reducing system bottlenecks by 35%.
- Automated and maintained critical CI/CD pipeline load-test tasks by provisioning isolated test sandbox containers, creating CRON test monitoring jobs, and scripting metric collection tasks with python and SQL—to reduce release-blocking failures by 30% and accelerate developer feedback loops by 40%.
- Enhanced the control-plane testing by migrating legacy host VM live migration system to a more scalable pub/sub architecture, boosting system throughput by 20% and improving test accuracy (reducing false negatives) by 35%.
- Collaborated with SRE and partner dev's to drive design reviews, brown-bag knowledge-sharing sessions, sprint planning/retrospectives and conducting peer code reviews of Python, C/C++ to improve code quality and team alignment, ensuring over 98% uptime for critical test grids.

Apple

DevOps Engineer Intern | CI Tools-Site Reliability

Sunnyvale, CA

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 setup with Python, Bash, and Ansible scripts—flashing firmware at scale and orchestrating batch configurations to reduce manual setup time by and sustain 97% lab uptime.
- Developed custom Splunk monitoring and remediation tools, integrating gathered metrics into dashboards and internal alerting systems, enabling real-time detection and auto-recovery of host and device failures, which cut device downtime by 27% and improved test success rates by 34%.

Full Stack Developer

Remote

Software Engineer

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 hardwaresoftware 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.
- 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.