Alex Norell

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Skills

Languages	Python, HCL, Shell Scripting, C/C++
Skills	Cloud Solutions (AWS, GCP), Agile & Project Management, DevOps & CI/CD, Cybersecurity, Linux Admin, High Availability
Tools	Docker & Kubernetes, Terraform/OpenTofu, Git, Unit Testing, Redis, ElastiCache, DynamoDB, CI/CD (GitHub Actions, Jenkins)

Experience

Lead Infrastructure Software Engineer
Los Altos, CA

Semiotic Labs - Odos.xyz
April 2022 - February 2024

- Sole engineer responsible for infrastructure at a seed stage decentalized finance startup
- Scaled to handle over $15B USD through the platform with over a million unique users
- Initially built and scaled on GCP using GKE Autopilot, Cloud Run, and Memorystore for Redis.
- Transitioned to AWS to support further scaling, rearchitecting with ECS Fargate, Lambda, and ElastiCache for Redis.
- Architected and launched a public API along with comprehensive documentation using FastAPI.
- Started a SOC 2 Type 2 audit initiative, developing stringent security protocols and compliance strategies to safeguard client data.
- Established project management practices using GitHub Projects, lightly following Agile.
- Attended conferences and other events to network and develop business relationships for the company, landing some large connections.
- Designed and built backend Python microservices using Poetry and FastAPI.
- Configured alerting, monitoring, and observability for all infrastructure and services using CloudWatch and BetterUptime.
- Designed and built CI/CD pipelines using GitHub Actions and Spacelift, enhancing deployment efficiency.

Infrastructure Software Engineer, Deep Learning Libraries
Santa Clara, CA

NVIDIA
August 2021 - April 2022

- Managed and optimized Jenkins CI/CD pipelines for CUDA-based deep learning libraries, supporting seamless software releases.
- Coordinated cross-functional teams to ensure timely delivery of critical software updates and features.

DevOps Software Engineer
San Jose, CA

Sleep Number Labs
April 2020 - August 2021

- Established and scaled a Jenkins-based CI/CD platform for the entire engineering organization.
- Grew the CI/CD team from one to four to support the newly built platform.
- Implemented Scrum methodologies, leading sprints and maintaining backlogs to improve project transparency and team productivity.
- Developed robust security enhancements for cloud infrastructure, significantly increasing system security and compliance.
- Facilitated improved collaboration between development and operational teams, aligning technical projects with business goals.

Embedded Software Engineer
San Jose, CA

Sleep Number Labs
June 2018 - April 2020

- Engineered embedded software solutions, leading to improved product functionality and customer satisfaction.
- Containerized device-specific software, significantly streamlining development and testing processes.
- Modernized build processes by transitioning to CMake and Ninja, enhancing build performance and maintainability.
- Designed and built an RTOS development framework achored on modern CMake and code reuse between products and platforms. Integrated tightly with VS Code to act as a full replacement for MCUXpresso, MPLab X, and IAR, including ARM debugging.

Education

San Jose State University
San Jose, CA

B.S. Computer Engineering
December 2018