

Erik L. Parawell

Location: San Francisco, California

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SKILLS:

- Proficient: Python, JS/TS, Flask, Java, C, Bash
- Rusty: Cuda, Angular, Hadoop/Beam, D3js, Protobufs
- Technologies: BitBucket/Github CI/CD, Nginx, Docker, Proxmox, Jenkins (and other KVM solutions)
- Cloud: AWS, GCP
- Systems: In-depth Linux management and internals

EDUCATION:

[University of San Francisco](#), San Francisco,

B.S. in Computer Science class of May 2021

WORK EXPERIENCE:

[SiFive](#) (RISC-V IP), San Mateo, CA

JAN 2022 - Present

Software Engineer (BASH / [Wake](#) / Jenkins / Podman / Python)

- Engineered a CI system to streamline the review and integration process for toolchain submissions.
- Enhanced CI efficiency with a Jenkins-powered GitHub webhook server and an interactive CI actions bot for real-time comment-based interactions.
- Extensive Jenkins administration including system resource and permissions management.
- Orchestrated an Artifactory deployment, optimizing artifact distribution and package archival strategy.
- Innovated a [Wake](#)-compatible Squashfs packaging format, enabling the integration of custom tools into [Wake's](#) containerized environment.
- Acquired practical experience in C++ & understanding of Linux Namespaces and Syscalls in system-level tasks.
- Executed general DevOps functions, with a focus on Jenkins maintenance and system optimization.

[Consilient Labs](#) (AI Startup), San Francisco, CA

FEB 2021 - JAN 2022

Software Engineer (Python / TypeScript / Angular / Docker)

- Python / Tornado / REST API
 - Co-Developed an API Specification and Architecture for distributed consensus and health reporting.
 - Developed ETL pipelines to ingest hundreds of gigabytes of data each night for a Fortune 1000 client.
- TypeScript / Angular / D3js
 - Built a modular web UI in Angular with custom visualizations in D3js.
 - I was the lead engineer of the web UI which is meant to fully exercise REST API backend
- Docker / CI/CD
 - Optimized Docker CI/CD build time by 42% saving hundreds of dollars per month in build minutes.
 - Extensive Devops work with Docker / Nginx / Ansible / Makefiles to serve and build the core infrastructure.

[Rivendell Global LLC](#) (Private Asset Management), San Rafael, CA

MAY 2018 - MAR 2019

Software Engineer and Property Analyst Intern

- Created automated scripts to perform complex automated tasks using Python and web API services to improve work flow and ease the burden on employees for lead tracking.

Personal Projects:

- Built a from scratch distributed file system with redundant nodes using Java Netty and Protobufs. It also features a probabilistic routing system to save on routing overhead.
- Made an Apache Spark project to do transaction readdressing and analysis on 750GB+ of Bitcoin transactions and their origins.
- I manage my own servers like erikparawell.com which I host myself in my apartment.
- Heavily modified MIT's XV6 operating system to support containerization.