

About Me

I am a software engineer and architect based in Portland, OR. In the past several years, my focus has been on cloud architecture and backend systems. Projects have included a managed service for a highly scalable distributed database, an enterprise SaaS application, and consulting on cloud computing cost savings and best practices. I have additional experience across a wide spectrum, including technical project management, full-stack web development, and command line tooling. More recently, my interest has turned towards systems programming and lower-level challenges.

I value clear development processes and strong security practices. I enjoy continuous learning and working on diverse, kind, and supportive teams. I believe in excellence through iteration. Make it work, make it right, make it fast.

Skills

Languages

- **Python:** Flask, Django
- **Rust**
- **JavaScript/TypeScript:** React, Node.js, Gatsby
- **Others:** Go, Java, PHP, C/C++, 6502 assembly

Systems & Infrastructure

- **Amazon Web Services (AWS)**
- **Linux**
- **Terraform**
- **Ansible**

Design & Management

- **System Design & Architecture**
- **Technical Project Management**
- **Technical Writing**

Projects

CareerFoundry Cloud Computing Course

Work completed as an independent consultant, September 2021–January 2022.

- Wrote course material (~80,000 words) for cloud computing course.
- Consulted heavily on the course's direction and structure.

Neurotrack

Work completed as an independent consultant, November 2021–December 2021.

- Restoration of production service for an undocumented legacy system.
- AWS operational improvements, along with documentation to assist with maintaining the system until it could be decommissioned.

PhoneSlate

Work completed as an independent consultant, April 2018–May 2020.

- Architecture and development of RESTful API and backend processes to support data processing and messaging (push notifications, Socket.IO).
- Development of AWS-based architecture to support automated scaling, security, and resilience.
- Configuration and infrastructure management tooling with Terraform, Ansible, and Packer.

Customer Engagement

Work completed as an employee of Janrain.

- Development of Python-based tooling to map cloud infrastructure, including nearly 100 servers, each with its own unique and complex configuration.
- Analysis and remediation of infrastructure inefficiencies, resulting in savings of \$7,000 per month in AWS costs.
- Extensive improvements to operational practices through building Terraform and Ansible tooling to automate infrastructure management and creating improved, accurate documentation.

Penguin Random House

Work completed as an employee of Enharmonic.

- Management of a distributed team of developers and testers, coordination between business and engineering partners, and technical project management of development.
- System design and architectural guidance including a custom CMS, RESTful API, ETL processes to load data from multiple editorial sources, and web-based GUI tools for data management.
- Quality assurance and testing strategy, infrastructure management, and technical and end-user documentation.

Experience

Self-Employed

Independent Software Engineer & Consultant (June 2016–present)

- Software development and technical consulting services.

Aerospike

Cloud Operations Engineer (Sept. 2020–July 2021)

- Architected and built solutions for AWS and GCP using Terraform, Ansible, and Packer.
- Made core contributions to the Aerospike Cloud Managed Service product.
- Deployed and supported customers with multi-region and highly available infrastructure.

Janrain

Software Engineer (Oct. 2017-July 2018)

- Operational support, cost-savings, and tool development for Customer Engagement product.
- Development of microservices written in Go.

Technical Support Engineer (May 2017-Oct. 2017)

- Technical support for enterprise customers, including Fortune 500 companies.

Enharmonic

Technical Consultant (Sept. 2012–May 2016)

- Project management, system design, QA, infrastructure management, and documentation for Penguin Random House projects.

Education

Western Governors University

- Bachelor of Science, IT - Software Emphasis