

## About Me

I am a software engineer and architect based in Portland, OR with over a decade of experience in the tech industry. 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:** Django, Flask
- **JavaScript/TypeScript:** React, Node.js, Gatsby
- **Others:** Go, Rust, Java, PHP, C/C++, 6502 assembly

### Systems & Infrastructure

- **Amazon Web Services (AWS)**
- **Google Cloud Platform (GCP)**
- **Linux**
- **Terraform**
- **Ansible**
- **Docker**

### Design & Management

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

## Experience

### Self-Employed

*Independent Software Engineer & Consultant (June 2016–present)*

- Engineering, architecture, consulting, technical writing, and project management.
- Project: Nytech (*August 2022–December 2022; March 2023–April 2023*)
  - Sole backend architect and engineer.
  - Designed and built GCP-based infrastructure (managed with Terraform and Ansible), RESTful API (Django REST Framework), chat system (Django Channels), Stripe integration (including Stripe Connect), and other backend application components.
  - Functioned as interim CTO (March 2023–April 2023) to manage technical side of product launch.
- Project: CareerFoundry Cloud Computing Course (*September 2021–January 2022*)
  - Wrote course material (~80,000 words) for cloud computing course; consulted heavily on the course's direction and structure.
- Project: Neurotrack (*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.
- Project: PhoneSlate (*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 (managed with Terraform and Ansible) to support automated scaling, security, and resilience.

## **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)*

- Core product contributions: Development of microservices written in Go.
- Project: Customer Engagement
  - 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.

*Technical Support Engineer (May 2017–Oct. 2017)*

## **Enharmonic**

*Technical Consultant (Sept. 2012–May 2016)*

- Project management, system design, QA, infrastructure management, and technical and end-user documentation, primarily working on projects for key client Penguin Random House, including the Living Language and Fodor's product lines.
- 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.

## **Education**

### **Western Governors University**

- Bachelor of Science, IT - Software Emphasis