

## Skills

### Programming

Python, TypeScript, POSIX Shell  
SQL, Rust, Gleam

### Systems

Alpine Linux, Ubuntu Linux  
Debian Linux, Arch Linux  
AWS ECS, RDS, S3, Lambda, VPC,  
CloudWatch, IAM, ...  
PostgreSQL, OpenSearch, ClamAV

### Tools

Git, Docker, Docker Compose,  
Terraform, Kubernetes  
GitLab, Neovim, Jira, Confluence

### Writing

Project documentation, develop-  
ment design documents  
Research, presentation to leadership

## About Me

I'm a senior developer with 5 years of experience leading development of green-field applications, making architectural decisions, responding to changing requirements, and owning end-to-end system development. I'm most fluent in backend and infrastructure, but I'm conversant in frontend, and I'm passionate about designing for every layer of software use, from developer to end user.

## Selected Experience

### Lead Engineer at Booz Allen Hamilton in Washington, D.C.

October 2023–Present

- Originated data model and custom data ingest package in Python ingesting 1e6 rows across 10+ OSINT data sources for customer analyst use. Wrote custom scraping and ETL for half the sources and guided development of the remainder.
- Contributed to event-based application architecture design ingesting 1e5 documents daily from OSINT sources. Originated a suite of Python backend services to produce and augment event data.
- Originated multiple GraphQL APIs in TypeScript to provide managed access to 1e6 rows of ingested data across PostgreSQL databases and OpenSearch clusters. Identified and containerized middleware software for implementing cross-service data synchronization.
- Developed 10+ Docker images for deployment of applications on AWS ECS while minimizing exposure to CVEs. Reengineered inherited custom FOSS app Docker image to reduce exposure to CVEs and minimize image size.
- Developed Terraform configuration in collaboration with other team members to manage infrastructure across 20+ AWS services. Led refactors to reduce technical debt. Originated custom modules to ease adoption of new services.
- Contributed to setting team best practices and continuous workflow improvement. Participated in program increment planning as team lead and member to coordinate with other teams and leads and avoid roadblocks. Drafted an analysis of competing vendors of secure container base images to support procurement decisionmaking.

### As a Staff Engineer:

July 2021–September 2023

- Analyzed and documented inherited Java data ingest pipeline for requirements generation and customer reporting.
- Led development on over a dozen business process and line of business applications in Microsoft PowerApps. Originated design and documentation standards for the development team. Led introductory PowerApps training. Built GitHub automation for one-button Power Platform deploys.

### As a Technologist:

August 2019–June 2021

- Provided business process workflow notifications to an internal website userbase of 5e4 using AWS Lambda.

### Independent web developer, programmer, and sysadmin

2013–Present

- Host and maintain personal infrastructure of 15+ services across multiple machines on Alpine Linux with Docker and Docker Compose.

## Education & Certifications

### Certified Kubernetes Application Developer

June 2025

### CompTIA Linux+

April 2025

### AWS Certified Developer - Associate

September 2023

### The Pennsylvania State University

Class of 2019

- The Schreyer Honors College
- Bachelor's in Computer Science from The College of Engineering