

## SUMMARY

I've worked to build, deploy, migrate, and maintain systems in the cloud. I'm interested in distributed systems, containerization, software security and reliability, and helping teams work more effectively.

## EXPERIENCE

### **Biden for President, Portland, OR** – *Senior Cloud Engineer*

AUGUST 2020 – NOVEMBER 2020

- Developed a system using Lambda and Step Functions that automates the creation of disconnected cross-account Redshift backups.
- Built a logging pipeline that captures and archives application, host, and security sensitive logs in the BFP infrastructure for analysis.

### **Mozilla, Portland, OR** – *Senior Software Engineer / Devops Engineer*

JULY 2016 – AUGUST 2020

- Built infrastructure and automation for dozens of in-house services.
- Designed and deployed hardened cloud infrastructure for Mozilla's air-gapped signing server using CloudHSM, Lambda, VPCs, NLBs, and more.
- Built reliable, scalable solutions for highly available deployments of Elasticsearch, RabbitMQ, and Mozilla's homegrown distributed systems.
- Migrated services from EC2 VM deployments to Kubernetes in Google Cloud.
- Wrote a tool for automating Taskcluster worker image creation and deployment. Developed platform support for workers in Microsoft Azure.

### **Mozilla, Mountain View, CA** – *Operations Engineer Intern*

MAY 2015 – JULY 2016

- Developed Reaper, a tool that cleans up Mozilla dev EC2 environments.

### **Sandia National Laboratories, Livermore, CA** – *Security Intern*

JUNE 2013 – AUGUST 2013, JUNE 2014 – AUGUST 2014

- Developed reverse engineering exercises for Sandia's CTF competition.

## EDUCATION

### **Lewis & Clark College** – *Computer Science*

SEPT 2012 – MAY 2016, Cum Laude

## SKILLS

- Extensive experience with cloud platforms, deployment pipelines, databases, system administration, containerization, version control, CI/CD systems, and infrastructure as code tools.
- Experienced with Terraform, Puppet, Ansible, Docker, Kubernetes, Jenkins.
- Deep experience building infrastructure and applications on top of AWS and GCP services and hosted K8s.
- Extensive experience programming in Go, Python, and NodeJS. Excited about functional programming, concurrency, low level internals, and the web.
- Passionate self-taught learner from webapps security to kernel internals.