

- Skills**
- Comfortable programming and problem solving in Python (Every day), Golang, Perl, and C/C++ (Sometimes)
 - Strong knowledge of infrastructure as code including Terraform, Ansible, and Packer
 - Strong knowledge of monitoring best practices with a experience building services with observability in mind
 - Knowledge of Linux system internals, including use of common command line tools
 - Experience participating in 24x7 on-call rotations for mission critical systems
 - Thrives when collaborating, specifically managing cross team complexity

Work Experience

- Backend Software Engineer - Plum Inc.** (plum.wine) - Remote **June 2019 - Present**
- Managed and developed cloud infrastructure in AWS using infrastructure as code to deploy ECS, RDS, Elasticsearch, Cloudwatch, IAM, AWS Networking (VPC's, ELB/ALB's), and Containerized Services
 - Built developer tooling for running Terraform, Ansible, and Packer
 - Built CI/CD tooling with Jenkins to facilitate well tested, container based deployments
 - Built monitoring tooling with Cloudwatch and Elasticsearch
 - Developed backend web services in Python
 - Developed on-appliance code for the Plum smart wine dispenser in Python and C++ (Chromium)
 - Participated in on-call rotation including root cause analysis, post mortem, and ticket triage

- Site Reliability Engineer - Dropbox Inc.** (dropbox.com) - San Francisco, CA **June 2016 - Feb 2019**

Core Data - Caching, Placement, and Routing [*~6 months*]

- Reduced toil and operational load in supporting Memcache by moving to automated deployment tools, improved alerting and dashboarding, and creating disaster recovery tests to prove and enforce service level agreements
- Defined SLA's and helped create disaster recovery tests for an inhouse strongly consistent caching solution
- Reduced oncall load by moving services to automated workflow based deployments

Monitoring [*~1 year*]

- Improved tooling that greatly reduced operational toil surrounding existing large Nagios deployment
- Created a disaster recovery test framework that enabled others on the team to run safe and effective DRT's
- Worked over the span of several months to migrate Hbase backed time series storage solution between regions

Physical Infrastructure Tooling (PhIT) [*~1 year*]

- Productionalized full disk encryption support in the Dropbox System Installer (DSI), continuing the work started during my 2015 internship
- Maintained and further developed features for the DSI that enabled easy full disk encryption deployment across Dropbox's fleet of machines
- Created a testing and canary framework that allowed others to efficiently and safely test changes to the installation process within the DSI

Site Reliability Engineer Intern [*Summer 2015*]

- Created a proof of concept full disk encryption system built on top of the Dropbox System Installer (DSI)
- Developed encryption key storage and access management solution that met the requirements of the DSI

- Education** **Rochester Institute of Technology** [*2012 - 2016*]
Bachelor of Science in Applied Networking and Systems Administration

- Hobbies** **Custom Mechanical Keyboards**

Spending most of my time at work typing, I enjoy having a keyboard that looks, sounds, and feels exactly how I want it to. I've built many keyboards over the past few years for myself and others that have ranged from small weekend projects to long multi-month epics to source, build, and customize the boards.
