

Objective

Passionate Site Reliability Engineer looking to work on an inclusive team that is excited about high quality of work, continuous collaboration, and reliable, scalable systems.

Skills

- Comfortable programming and problem solving in Python and Golang (Every day), Perl and C (Sometimes)
- Strong knowledge of Linux system internals, including use of common command line tools
- Experience participating in multiple 24x7 on-call rotations for mission critical systems
- Thrives when collaborating, specifically managing cross team complexity
- Experience designing and assembling server hardware, including racking and cable management

Work Experience

Site Reliability Engineer - Dropbox Inc.

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 our 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 - Dropbox Inc.

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

Assistant System Administrator - Rochester Institute of Technology

January 2015 - May 2015

- Created Ansible playbooks to allow for easy and continuous installation of communal lab computers (Ubuntu, ROS)

Residential Computing Consultant - Rochester Institute of Technology

Spring 2013 - January 2015

- Provided tier 3 computer repair support to students and faculty including advanced Windows and OSX troubleshooting, hardware troubleshooting, and network troubleshooting via face to face and software aided support mediums
- Provided front desk and phone support to students and staff that needed to support

Tech Management Analyst – Information and Technology Services, RIT

Summer, 2014

Target Development Intern/Information Security Intern – iSIGHT Partners

Summer 2013, 2013

Education

Rochester Institute of Technology

2012 - 2016

Bachelor of Science in Applied Networking and Systems Administration

Relevant classwork includes Mechanics of Programming, Scripting 1 (Perl and Bash), Configuration Management (Perl), Programming in C++, Discrete Mathematics, Database Structure and Data Modeling, Intro to Networking, Systems Administration 1, and Routing and Switching.

Projects / 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.