

Stephen Weeks

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Work Experience

Apple Security Engineer, Site Reliability Engineer - Jan 2018 - February 2024

- Lead system monitoring and alerting infrastructure bringup for new China iCloud environment.
- Migrated stateful legacy monitoring system to Kubernetes.
- Trained team on Kubernetes use, maintenance, and deployment.
- Taught Beginner and Intermediate Rust classes.
- Automated kernel upgrades for hundreds of Percona XtraDB clusters.
- Supported LDAP, IAM, and other identity services.
- Developed agent for watching multiple sources of truth to propagate identity config changes.
- Developed automation for ingesting and deploying TPM host certificates for cluster identity.
- Maintained identity services agent written in Rust.
- Developed automation for injecting identity services in AWS and GCP k8s clusters via Pulumi.

Instart Logic Senior Systems Engineer - May 2017 - Jan 2018

- Configuration management and provisioning automation

IMVU Lead Site Reliability Engineer, Engineering Manager - February 2014 - May 2017

- Leading a site reliability team with 7 direct reports since January 2016.
- Lead project to adopt Elasticsearch for logging.
- Lead project to take MySQL backups from days down to hours.
- Lead project to migrate memcached into kubernetes.
- Deployed Ceph for Network Storage.

Google Site Reliability Engineer, February 2013 - February 2014

- Regular on-call shifts.
- Improved monitoring of stale deployments.

IMVU Sysadmin, April 2010 - February 2013

- On a team of five maintaining a cluster of approximately 700 servers providing service to approximately 100k concurrent users.
- Regular on-call shifts with a 15 minute SLA.
- Wrote new tools in Perl to manage infrastructure and automation.
- Reduced complexity and increased test coverage of configuration management.
- Trained engineers for production access in devops roles.

Guru Labs Instructor, July 2007 - April 2010

- Taught week-long linux sysadmin classes, for Red Hat, IBM, HP, Oracle, and others including fundamentals, network services, troubleshooting, shell scripting, perl, and security.
- Developed courseware for new topics.
- Implemented and maintained Asterisk PBX.
- Produced automation tools to aid courseware and exam development.

Iodynamics Junior Engineer, March 2005 - July 2007

- Iodynamics was an IT consulting firm; I worked on a wide, rapidly-changing variety of projects
- Maintained network infrastructure and web, email, and file servers for local small businesses.
- Developed and customized web applications using Apache, mod_perl, PostgreSQL, and PHP.
- Responded to security compromises, including rebuilding the compromised system and providing or implementing recommendations for improved security.

Skills

Programming and Markup Languages

- Proficient with Rust, Python, Perl, C, bash, regular expressions, SQL.
- Some experience with Haskell, Go, Ruby, PHP, JavaScript, HTML, CSS.

Tools and Systems

- Proficient with Kubernetes, Docker, Apache HTTP Server, Nginx, Haproxy, Ceph, MySQL, Redis, Memcached, iptables, OpenSSH, git, linux kernel and userland.
- Some experience with Prometheus, Grafana, AWS, Puppet, Pulumi, Varnish, Apache Traffic Server, SQUID, PXE, Nagios, Elastic Search, Keepalived, SELinux, Auditd, BIND, OpenSSL, Postfix, Sendmail, PostgreSQL, NFS, Samba, Subversion, OpenLDAP, Kerberos, CFEngine.