

Stephen Weeks

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Work Experience

Apple Security Engineer, Site Reliability Engineer - Jan 2018 - April 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.
- Automated kernel upgrades for hundreds of Percona XtraDB clusters.
- Supported LDAP, IAM, and other identity services.
- Developed automation for ingesting and deploying TPM host certificates for cluster identity.
- Developed and maintained identity services agent.
- 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

IMVU , January 2017 - 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.
- Diagnosed and fixed networking problems responsible for 5x increase in peak application response time.

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, including the following:
- 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, Pulumi, Varnish, Apache Traffic Server, SQUID, PXE, Nagios, Elastic Search, Keepalived, SELinux, Auditd, BIND, OpenSSL, Postfix, Sendmail, PostgreSQL, NFS, Samba, Subversion, OpenLDAP, Kerberos, CFEngine.