

Stephen Weeks

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Work Experience

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

- Led cross-team initiative to enable TPM-attested host certificates across 70,000 Kubernetes servers with near-real-time updates from multiple sources of truth.
- Led system monitoring and alerting infrastructure bringup for new China iCloud environment, overcoming political, integration, and data sovereignty requirements.
- Migrated stateful legacy monitoring and alerting system to Kubernetes.
- Developed automation for injecting identity services agent in AWS and GCP k8s clusters.
- Automated kernel upgrades for hundreds of Percona XtraDB clusters.
- Maintained identity services agent written in Rust.
- Supported LDAP, IAM, and other identity services.
- Trained team on Kubernetes use, maintenance, and deployment.
- Taught Beginner and Intermediate Rust classes.

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

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

Google Site Reliability Engineer, February 2013 - February 2014

- Maintenance and on-call shifts for Social Frontend.
- Improved monitoring of stale deployments.

IMVU Sysadmin, April 2010 - February 2013

- Maintained 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

- 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.