

TOOLS ENGINEER / DEVOPS

Accomplished Tools Engineer with proficiency in the development and delivery of utilities to support a wide range of disciplines, including DevOps, Release Engineering, Quality Assurance, and Site Operations.

Core Skills and Competencies

Tools Development
UNIX / Linux

Back End Automation
Configuration / Release Management

Scripting (Python, Bash, Perl)
Systems Administration

Professional Experience

TWILIO, San Francisco, CA

(2014-2015)

BUILD AND RELEASE ENGINEER, CLOUD SERVICES

Provided support to Engineering teams through automation and maintenance of the build and testing pipeline at this all-in-the-cloud telephony services company.

- Developed, deployed, maintained and documented:
 - End-to-end build system tester (Python, GitHub Enterprise APIs) with metrics (Datadog) and alerting (SendGrid)
 - Micro-services based system for build workspace (mock) maintenance with the accompanying CLI (Python, Flask)
 - Stateless Jenkins-as-a-Service build cluster (Jenkins, EC2, S3, pivot logic, immutable instances, collectd metrics)
 - S3 backed yum repository metadata management and transactional service (Shell)
- Maintained Jenkins Job Creator automation service (Ruby, Cucumber / Rspec tests)
- Infrastructure automation via Chef state assertions with Serverspec, development with Kitchen
- SME for all things build system (Jenkins, GitHub Enterprise, Tools)
- Participated in all Agile Ceremonies (daily scrums, grooming, retrospectives and planning sessions)

EBAY / STUBHUB, San Francisco, CA

(2006-2014)

SENIOR TOOLS ENGINEER

Supported the Release Engineering, DevOps, Quality Assurance, Engineering, and Site Operations groups through tools development and basic systems administration.

- Developed and maintained two generations of deployment automation. (Perl, Bash)
- Designed, tested, and deployed UNIX/Linux software tools, accompanied by complete documentation to guide the efforts of teams across multiple disciplines. (Perl, Bash)
- Designed and implemented a tokenization/de-tokenization process for the management and deployment of configuration files, enabling the storage one file in source control containing tokens instead of one file per environment. (Perl)
- Developed new Build and Deploy program suites to ensure the success of QA functions and production testing for new releases. (Perl, Bash)
- Designed and deployed automation that brought content development, staging, and deployment into compliance with the Sarbanes-Oxley Act. (Perl)
- Architected and released a production deployment and staging solution for StubHub's seat map and section view images. (Perl)
- Served as the administrator of the Perforce proprietary software version control system, including upgrading server software, migrating functionality from one server host to another, and administering backups. (Perforce, Systems Administration)

NORTHROP GRUMMAN, San Mateo, CA

(2004-2006)

EDI SYSTEMS ADMINISTRATOR / IMPLEMENTOR

Provided key support to the Business to Business Development and Operations group at this multi-billion dollar global aerospace and defense technology company, developing, testing, and documenting an array of UNIX software tools.

ACTUATE CORPORATION, South San Francisco, CA

(2002-2002)

UNIX SYSTEMS ADMINISTRATOR

Met the challenge of managing Arkeia backups at this leading reporting, analytics, and customer communications software company, ensuring the integrity of data from a network of Windows, Linux, AIX, HP-UX, and Solaris clients. Installed Linux on workstations, performing kernel recompilation as required.

RESPONSIBLE SOLUTIONS LTD, Redwood City, CA

(2001-2002)

SECURITY ENGINEER

Designed, coded, tested, and maintained tools governing security, monitoring, data conversion, and data indexing for internal stakeholders and external clients of this provider of specialist business improvement advice in the areas of computer security.

SGI, Mountain View, CA

(2000-2001)

MEMBER OF TECHNICAL STAFF - DESIGN

Improved the System Verification Program for the quarterly Internal Support Tools CD release by this leading producer of high performance computing, data management, and visualization products.

Prior Work History

UNIX Systems Administrator, STERLING SOFTWARE INC. / COMPUTER SCIENCES CORPORATION, Moffett Field, CA

UNIX Systems Administrator, MENTOR TECHNOLOGIES INC., Lanham, MD

Member of Technical Staff, COMPUTER SCIENCES CORPORATION, Greenbelt and Rockville, MD

Education

Bachelor of Science Degree in Computer Science – TOWSON UNIVERSITY

Technical Proficiencies

Code: Python, Shell, Bash, Perl

Systems: Linux, Unix

Services and API: Jenkins, Chef, Perforce, Git

Cloud: AWS EC2, S3

Professional Training

Agile & Scrum Project Team Training 101 (Matrix Solutions) – 2015

Personal

Enjoy Choral singing, motorcycle riding, cooking, running.