

Sherri Li

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Technical Skills

Programming: Bash, Python, Java, C, Go, HTML, CSS, InfluxQL, SQL, R

Tools: Telegraf, InfluxDB, Grafana, Terraform, Prometheus, AWS, CloudWatch, Global Accelerator, Git, Docker, Kibana, Selenium, Jenkins, RabbitMQ, stress-ng, apache bench, wrk2, Jira, k6, VirtualBox, Nebula

Work Experience

Performance Engineer

August 2019 - present

Forcepoint (formerly known as Bitglass - acquired in November 2021)

- Developed and maintained a containerized Apache Manager service that terminates httpd workers using excessive amounts of Memory and Swap; freeing up system resources for other processes.
- Developed proactive release-to-release monitoring and implemented slack alerting in Grafana.
- Designed and developed load tests against various cluster sizes of sharded and un-sharded RabbitMQ nodes, analyzed and presented results to DevOps.
- Benchmarked AWS EFS provision and burst modes, helping company choose more cost-effective option.
- White box tested the Cryptography team's encrypt and decrypt functions in C, Python, and Go.
- Developed Synthetic Monitoring tools and alerting for critical SASE products.

Test Automation

April 2018 - June 2019

Information Technology Services, UC Santa Cruz

- Designed and architected a CI/CD Jenkins pipeline that connected to BitBucket and Nebula.
- Developed automated tests for homegrown UCSC web applications using Python, Shell, and Selenium.
- Integrated GoogleSheets API into Python scripts to generate automatic test logs.
- Ran stress tests using JMeter HTTP requests feature.
- Developed regression tests for Ubuntu, CentOS, Windows, and MacOS.
- Leveraged LastPass CLI to improve credentials security of login tests.
- Created QA automation tutorials and one-on-one training for technical staff and business analysts.

Project Experience

Remed Me

- Remind patients to take their prescription medication.
- A headless web application built using Python and Flask.
- The back-end calls Cloud Vision API for image parsing, and Twilio API for text alerts and image retrieval.

Food Friends

- Connect volunteers to local food pantries using GoogleMaps API.
- A mobile application built using Android Studio and Java.
- Created a page for users to make accounts and donate money through Venmo.

Education

University of California, Santa Cruz

B.A. Mathematics, Minor in Computer Science

September 2015 - June 2019

GPA: 3.8 / 4.0