

RYLAND SEPIC

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EXPERIENCE

Software Engineer, Charles Schwab

March 2023 – Present

- Created the build and deploy process for shipping containers to Kubernetes clusters. This process involved containerizing applications, setting up a K8s cluster, and creating the build and deploy plans in Bamboo and Harness. I fully supported this environment afterwards.
- Upgraded insecure software on over 430 servers by writing a Python application that could scrape servers for information and perform specific upgrades based on the findings.
- Setup over 300 servers for over 20 development team's development and QA environments.
- Performed Quality Assurance testing on 3 applications for cloud migration by writing a Flask REST API app.
- Created a support environment, following cyber security principles, with Ansible and Python that support teams could use to troubleshoot and perform mass troubleshooting operations on infrastructure that contained over 800 servers.
- Wrote an application for mulitcast testing in Python, used to test networks on 3 separate application architectures.

Software Engineer, Keysight Technologies

January 2022 – March 2023

- Served as the team DevOps CI/CD expert and leader, supporting over 80 applications including Nuget pacakges, Chocolatey packages, NodeJS and Python apps.
- Performed a major upgrade to the Jenkins build system, upgrading all vulernable plugins and primary Jenkins software, while still maintaining backwards compatibility. This initiative involved creating a full scale testing environment which modeled the CI/CD pipeline used in production.
- Created a new CI/CD pipeline from scratch for another team.
- Wrote CasC as Ansible scripts for provisioning build servers used by the Jenkins.
- Built a new debug symbol server which became the new company standard. It utilized Artifactory as well as involved an upgrade to the company wide build pipeline code, that was used by over 50 engineers on over 10 teams.
- Supported 85 Linux servers accross 20+ sites worldwide which ran applications for testing in factories that were responsible for generating \$1billion/year.
- Created a testing environment in AWS to model a subset of the Linux servers we managed in an effort as a part of our upgrade effort.

EDUCATION

University of California, Davis

2015 – 2020

B.S. Computer Science and Engineering

- Graduated with honors.
- Full-tution scholarship.

PROJECTS

End-to-end Encrypted Payment Application (Swift)

- Wrote a secure peer-to-peer payment application in a team of 4 that could transfer and store encrypted payment data, using the Stripe API, built in encryption libraries, and Firebase.
- I handled encrypting and decrypting traffic as well as the initial Diffie-Hellman key exchange between users.

Marketplace Application (Swift)

- Created a marketplace application in a team of 3. I handled image data and asynchronously loading photos from Firebase to the application.

TECHNOLOGIES AND LANGUAGES

- DevOps: Ansible, Artifactory, Bamboo, Harness, Jenkins.
- Languages: Bash, C/C++, Groovy, Python, Swift.
- Infra Tools: AWS, Containers (Docker, Podman), Docker Swarm, Kubernetes, Terraform, Vagrant.