RYLAND SEPIC

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EXPERIENCE

Software Engineer, Charles Schwab   **March 2023 – Present**

Software engineer working on migrating application to a cloud infrastructue, quality assurance testing, developing tools for support teams to use for troubleshooting infrastructure problems, and the build and deploy system.

- Created the build and deploy process for shipping containers to a Kubernetes cluster. I worked on setting up the K8s clusters and working on the build and deploy plan in Bamboo and Harness. I fully supported this environment afterwards.
- Upgraded insecure software on over 430 servers by writing an application that could scrape servers for information and perform specific upgrades based on the finding.
- Provisioned over 300 servers in the cloud environments and assisted development teams of over 20 applications in setting up development and QA environments.
- Performed Quality Assurance testing on 3 applications in their migration to the cloud by writing a Flask REST API application that could verify applications status by performing healthchecks and comparisons.
- Created a support environment, following cyber security principles, with Ansible and Python that support teams could use to troubleshoot and perform mass operations on an infrastructure of over 800 servers.
- Wrote an application to perform mulitcast testing. This was used to test the networks for 3 separate application architectures.
- Performance tested an application that used gRPC protocol by assisting in writing a layer for an application that could facilitate a performance test. The data was then displayed on Grafana and Prometheus.

Software Engineer, Keysight Technologies   **January 2022 – March 2023**

Worked on factory test systems in the production department, as a software engineer serving as the team DevOps CI/CD expert and leader. I had impact by streamlining the build and deployment of testing software for factory products as well as supporting Linux servers used to support factory applications.

- Supported over 80 applications in their build and deploy cycle. Applications included 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 evironment 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.

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.