RYLAND SEPIC

rylandsepic@gmail.com • (707) 364-3163 • linkedin.com/in/ryland-sepic • Petaluma, CA

EXPERIENCE

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

Software engineer working on migrating applications to the cloud, quality assurance testing, writing developing tools for support teams, and working on the build and deploy system.

- Worked on migrating the first application at the company to the cloud by writing K8s manifests in YAML and creating a CI/CD pipeline in Bamboo and Harness for deploying containers to K8s. I fully support this environment.
- Upgraded insecure software on over 430 servers by writing an application that scrapes servers for information and performs specific upgrades based on findings.
- Provisioned over 300 servers in the cloud environments and assisted development teams of over 20 applications in setting up development and QA environments.
- Wrote a REST API in Python with Flask that was used as a QA tool that 3 development teams used to verify the data integrity of their applications when migrated to the cloud.
- 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.
- Tested 3 separate application networks by writing an application that performs multicast testing. This application was used by multiple other teams.
- 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 an 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 packages, Chocolatey packages, NodeJS, and Python apps.
- Performed a major upgrade to the Jenkins build system, upgrading all vulnerable plugins and the Jenkins software, while maintaining backward compatibility. This initiative involved creating a full-scale testing environment that modeled the CI/CD pipeline used in production.
- Created a new Jenkins CI/CD system from scratch for another team.
- Wrote CasC as Ansible scripts for provisioning build servers used by the Jenkins build system.
- 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 across 20+ sites worldwide which ran applications for testing in factories that were responsible for generating $ 1 billion/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-tuition 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.