# RYLAND SEPIC

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## EXPERIENCE

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

- Migrated 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**

- 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 vulnerable 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 Jenkins server to support a special CI/CD pipeline for another team.
- Wrote CasC as Ansible scripts for provisioning build servers used by the Jenkins.
- Built a debug symbol server which became the company standard. Utilized Artifactory and upgraded the company wide build pipeline code, that was used by over 500 engineers on over 50 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 and QA environment in AWS to model factory servers to test upgrades.

## 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 encypting 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 asychronously 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.