

Summary

- Hands-on experience in configuring pipelines and deploying microservices on Kubernetes environments including automated CI/CD with monitoring deployments through Grafana.
- Well-versed in web development frameworks such as Django, Flask, and Spring Boot for creating Microservice REST API, and skilled in containerization and orchestration using Docker and Kubernetes.
- Experienced end-to-end project management, including the design, Frontend, Backend, and DevOps, with a strong command of DevOps tools and CI/CD pipeline implementation for deployment.

Skills

- **Language:** Python, Java, Go, C++, JS/TS, HTML/CSS
- **Cloud:** AWS, GCP, Heroku
- **Web:** Django, Flask, FastAPI, Spring Boot, Gin, React.js, React Native, Node.js, SvelteKit, Nginx
- **Containerization and Orchestration:** Docker, Kubernetes (K8s), Helm, Docker Swarm
- **Monitoring and Observability:** Grafana, Graphite, Prometheus, Burrow, Loki, Promtail
- **Message Queue and Caching:** Kafka, Redis, RabbitMQ, Celery
- **CI/CD:** Git, Jenkins, Github Actions, Goreleaser, Terraform, ArgoCD, FluxCD
- **AI:** PyTorch, TensorFlow, OpenCV
- **Database:** MongoDB, MySQL, PostgreSQL, Neo4j

Education

University of California Irvine

Class of 2024

- Information and Computer Science Minor, Physics B.S

Experience

Crowdstrike Holdings Inc, Irvine, CA- *Software Engineer - I*

June. 2024 - Present

- Deployed self hosted Sentry for frontend logging and debugging using FluxCD on K8s.
- Migrated internal legacy cloud pipeline for enhanced performance and monitoring.

Crowdstrike Holdings Inc, Irvine, CA- *Software Engineer Intern*

June. 2023 - Sep. 2023

- Developed and utilized Jenkins, Goreleaser, Helm, Docker, and Kubernetes to build and deploy a Custom horizontal Pod Autoscaler (CPA), replacing the horizontal pod autoscaler in the Kubernetes cluster.
- Refactored and made improvements on the existing CPA project, removing and adding scaling factors such as Kafka Lag and CPU thresholds, for better scaling decisions and logging.
- Prototyped a better scaling algorithm involving kafka topic partition based scaling.
- Monitored real-time streaming lag trends and replication of consumer pods based on data monitored by Burrow into Graphite which was then queried into Grafana as time-series data for visualization.
- Deployed an internal Microservice on an in-house Kubernetes cluster and observed enhanced pod-scaling behavior through a custom pod autoscaler implementation.

Head Start Silicon Valley, Santa Clara, CA - *Software Engineer Intern*

Jan. 2022 - Feb. 2022

- Created a mobile web app that involves image detection and classification using React Native, Django, MongoDB, PostgreSQL, and other supplemental frameworks.
- Scraped 1000+ images using Selenium and utilized PyTorch to create a mushroom detection model.
- Containerized the project using Docker and K8s, deployed on AWS EC2 instance.

Projects

2022 Techeer Summer Boot Camp

[link](#)

- Created the overall architecture of a fish classification web app as a team leader.
- Implemented Django, PostgreSQL, Celery, RabbitMQ to create an API server for handling asynchronous AI model decisions and user management.
- Utilized PyTorch to create a machine learning model to create a fish detection model.
- Deployed project using Docker on AWS EC2 Instance and implemented Grafana and Prometheus for API server monitoring.

Goodnight 2nd Hackathon: Go Gin and SQLite

[link](#)

Goodnight Hackathon: Java Spring Boot

[link](#)

Petr Maker: SvelteKit, NGINX, Docker

[link](#)

PyWebSoc: Open source PyPI Package

[link](#)

UC Irvine WebReg Hackathon 2023: React.js with Typescript

[link](#)

Awards

Dean's Honor List Awards

2019 - 2021, 2024

New American University Scholar Scholarship

2019 - 2021