AUSTIN UWATE

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LinkedIn|GitHub|Portfolio

TECHNICAL SKILLS

Front End | React, JavaScript, TypeScript, HTML/CSS, styled-components
Back End | Java, Go, Python, Spring Boot, Spring Security, Spring Data JPA, Spring Batch, WebFlux, Django, Flask, Redis, PostgreSQL, MySQL
Cloud / Distributed | Kafka, RabbitMQ, Spring Cloud, Docker, Kubernetes, Oracle OCI, AWS, Azure, NGINX, Reverse Proxy, Service Discovery
Deployment / Tools | Git, Maven, GitHub Actions, Jenkins, Linux/Unix, CI/CD, Event-Driven Architecture, Microservices

EXPERIENCE

Software Engineer Internship |FIU Division of IT   **March 2024 - Present**

Intern Software Engineer – CIARA, Operations Team   Python | GitLab | CI/CD | Kafka | Flask | Docker

- Led the modernization of the evc_manager CLI, reducing developer onboarding time by 30% and open issues by 80% by resolving 18 issues, adding 5 features, and improving the CI/CD pipeline with Poetry, Tox, and automated testing.
- Designed and deployed a production Kafka cluster with high availability, local storage, automatic redeployment, and backups—improving observability and system reliability across distributed services using Docker Swarm.
- Leading development of kafka_events, an async event bus and REST API layer to stream and filter telemetry from the SDN controller (Kytos), enabling high-throughput microservice communication at over 3,000 events per second. Code reviews with seniors and colleagues led to stong architectural decisions.
- Co-led development of intent-driven Ethernet Virtual Circuit (EVC) models with senior engineers, enabling operators to declaratively specify constraints (e.g., "guarantee 5GB bandwidth") for dynamic network automation.
- Pioneered new end-to-end test automation for core SDN services, increasing test coverage and accelerating QA cycles by 3×—establishing production-readiness for new services like kafka_events.
- Engaged in code reviews with senior developers and maintained high-quality standards through PyLint, unit testing, and GitLab workflows.

PROJECTS

Cloud / Distributed | Task Manager - Production-ready w/ Docker, Oracle, Spring Boot, Oracle SQL

Distributed, cloud-native task manager deployed on Oracle OCI, reverse proxied with NGINX   Spring Boot | Docker | GitHub Actions | React

- Designed and built a secure, scalable REST API using Spring Boot, implementing modular microservices architecture with Oracle SQL integration for efficient and reliable user data access.
- Implemented JWT-based authentication with HTTP-only cookies, supporting username/password and two-factor authentication (2FA) with QR code scanning and TOTP verification.
- Reached 80% of code coverage by developing full unit and integration tests to validate system behavior.
- Automated testing, containerization, and deployment through a CI/CD pipeline using GitHub Actions, Docker Hub, and Oracle OCI virtual machines, reducing manual deployment time by 90%.
- Developed a responsive front-end in React with secure login/registration flows and an intuitive task management interface, enabling users to create, update, and track tasks in real time.
- Leveraged available cloud engineers to mentor the project's progress to build best practices in distributed systems and cloud services.

Full-Stack Application | Containerized HTML Mail Sender w/ S3 Storage & EBS

Dockerized web application that sends HTML documents to recipients through a friendly user interface.   Golang | Stdlib | AWS S3 | AWS ECS | Docker

- Coordinated development efforts through a microservice architecture and finalized the design through an easy deployment on Docker.
- Leveraged Golang's powerful builtin library to efficiently service GET requests and process file uploads.
- Designed and integrated AWS S3 for secure, scalable, and cost effective storage.
- Leveraged multithreading through goroutines to offload intensive logging that may limit the performance of the application.

Backend Application | Video Converter w/ Kubernetes, Docker, Python, MySQL, & RabbitMQ

Cloud native web application leveraging Kubernetes for deployment and RabbitMQ for message queues   Flask | Debian | Docker

- Utilized Kubernetes for scalable and reliable deployment of containerized services, ensuring smooth operation under varying loads.
- Implemented RabbitMQ for asynchronous task management, facilitating efficient video processing through message queues.
- Coordinated a Deployment suite for a Flask-based backend, containerized with Docker, allowing for isolated and reproducible development environments.
- Integrated Redis caching to minimize network latency from computationally intensive operations, enhancing response times and overall application efficiency.

EDUCATION

Florida International University Bachelors of Science, Computer Science, GPA (only >= 3.8)   2025