AUSTIN UWATE

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[LinkedIn](#)|[GitHub](#)

TECHNICAL SKILLS

Front End | React, Javascript, TypeScript, HTML/CSS, styled-components
Back End | Go, Python, Java, Kafka, Django, SpringBoot, Redis, MySQL, PostgreSQL, Flask, Spring Security, Spring Data JPA
Deployment/Tools | AWS, Azure, Docker, Kubernetes, Docker Compose, Git, GitLab, GitHub, Agile, Scrum, Unix

EXPERIENCE

Software Engineer Internship | FIU CIARA — March 2024 - Present

Intern software engineer for the operations team at CIARA, prioritizing ownership and responsibility. — Python | GitLab | CI/CD | Unix

- Developed, updated, and released a modern version of a CLI Application, containing 14 issue fixes, 5 new features, an improved CI/CD pipeline, dependency management, and automated testing.
- Researched, designed, and implemented the automated testing and deployment suite using Tox, Poetry, and pyproject.
- Learned, documented, and utilized Kafka with Python to help gather telemetry data on network switches
- Utilized TTD through unit testing, integration testing, and end user testing to resolve GitLab issues that were causing problems for network engineers.
- Gained exposure to modern technologies in microservice architecture, such as Docker containerization, deployment on remote Unix servers, and SQL database integrations.
- Participated in code reviews with guidance from senior developers, maintaining a high standard through technologies like PyLint.
- Lead development on a logging system for their SDN application, using Flask, Kafka, MongoDB, and JSON serialization

PROJECTS

Backend Application | Kafka Cluster w/ SSL Benchmarking Suite

Benchmarking suite w/ Kafka, Python, Docker, GitHub CI Actions, script automation, and openssl — Python | Kafka | Docker | CI | Bash | SSL

- Lead a project to fully learn, implement, and benchmark key requirements for a new generation of CIARA networking products.
- Built an intuitive command line interface that provides users with necessary information on deploying benchmarks.
- Utilized Docker Compose to deploy Kafka clusters that interact with Python web applications using **kafka-python-ng**
- Automated SSL dependencies, testing, and Python dependency management using Bash scripts with openssl, Tox, and Poetry respectively.
- Employed DevOps practices by configuring continuous integration pipelines that run unit tests and integration tests with deployed Kafka clusters

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

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.
- Built a Statefulset that uses a scalable MySQL replicaset as the relational database for persistent storage of user authentication data
- Integrated Redis caching to minimize network latency from computationally intensive operations, enhancing response times and overall application efficiency.
- Designed the system with cloud-native principles in mind, ensuring portability and resilience in distributed environments.

EDUCATION

Florida International University Bachelors of Science, Computer Science, GPA (only >= 3.7) — 2025

CERTIFICATIONS

AWS Cloud Developer Certification (In Progress) — 2024