

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 Division of IT - 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
- Deployed a production Kafka cluster that features high availability and fault tolerance, high throughput, local storage, automatic redeployment, application-level backups, and more.
- 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, maintaing a high standard through technologies like PyLint.
- Leading development on a logging system for their SDN application, using Flask, Kafka, MongoDB, and JSON serialization

PROJECTS

[Full Stack | Task Manager - Production-ready w/ Docker, Azure, CI/CD, Spring Boot, React, PostgreSQL](#)

Full Stack web app using Spring Boot, React, GitHub Actions, Docker Hub, and Azure

Spring Boot | Docker | CI/CD | Azure | React | PostgreSQL

- Designed and developed a RESTful API with Spring Boot, focusing on core CRUD operations with a planned PostgreSQL database interaction for efficient data storage and retrieval.
- Implementing JWT-based authentication and user login system with username/password functionality and comprehensive unit and integration tests to ensure backend reliability and functionality.
- Built a CI/CD pipeline using GitHub Actions, Docker Hub, and Azure to automate the testing, building, image pushing, and deployment.
- Designing an intuitive UI for users to manage tasks via a web interface, with secure login and registration functionality.

[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.
- 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