

# Ahmad Shaqqou

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## EDUCATION

### University of Central Florida

Orlando, FL

B.S. Computer Science, GPA: 3.76

July 2022 – December 2025

**Relevant Coursework:** Data Structures and Algorithms, Discrete Structures, Operating Systems, Object-Oriented Programming and Design, Intro to Machine Learning, Cybersecurity, Software Engineering

## EXPERIENCE

### Software Engineering Intern

Bath, ME

General Dynamics - Bath Iron Works

May 2025 – August 2025

- Automated **20+ Jira workflows** with custom SIL scripts and **AI-assisted validation tools**, improving ticket flow and reducing processing time by **30%**.
- Built smart filters and **automation pipelines using JQL**, cutting manual configuration by **40%** and boosting team efficiency.
- Developed and **deployed custom SIL scripts** to automate repetitive Jira tasks, reducing manual configuration time by **40%** and significantly improving workflow efficiency for the engineering team.

### Computer Science and Mathematics Tutor

Orlando, FL

Coach Kelly LIVE

July 2023 – Present

- Tutored over **30** students, leading to a **90% pass rate** on the UCF Computer Science Foundation Exam through personalized and targeted support.
- Improved grades for **30+ Computer Science students** by one letter grade through personalized and small-group tutoring, enhancing comprehension of assignments and projects.

## PROJECTS

### Army Reserve Mercury | Expo, React Native, PostgreSQL, JavaScript, AWS Elastic Beanstalk, Jenkins

- Engineered core features on a production app actively used by **500+ U.S. Army Reserve soldiers**, streamlining training and administrative workflows that directly reduced paperwork delays and improved operational readiness.
- Developed and optimized critical modules including budget tracking dashboards, RST scheduling, and an action-oriented notification system. Features that improved user adoption across web and mobile.
- Drove reliability and scalability by deploying to AWS Elastic Beanstalk with a **Jenkins CI/CD pipeline**, enabling faster releases, automated testing, and a **30% reduction** in deployment errors across environments.

### DevSwipe | MERN (MongoDB, Express.js, React, Node.js), TypeScript, Vite, Amazon Lightsail

- Led **full-stack development** of a web app that enables developers to submit project ideas, explore others' work, and connect with collaborators based on shared skills and interests, enabling them to build projects together.
- Focused on the backend, building **20+ REST API endpoints** for user login, email verification, messaging, and project management using **Passport** and **Nodemailer**.
- Helped integrate **real-time** features like chat, notifications, and live updates using Socket.io, and set up **CI/CD** with GitHub Actions to deploy changes to an Amazon Lightsail server.

### Audio-Sync | Python, Node.js, React, Flask

- Implemented a music recognition app that identifies songs from audio input, retrieving details like song titles, artist names, and album name, enhancing the user's music discovery experience.
- Integrated the Shazam API for **real-time** song recognition and the Spotify API to allow users to seamlessly add recognized tracks to their customized playlists.

## TECHNICAL SKILLS

**Languages:** Python, Java, JavaScript/TypeScript, C/C++, C#, SQL, PHP, HTML/CSS, Go (Golang), Shell Scripting

**Frameworks:** React, React Native (Expo), Node.js, Express.js, Next.js, Flask, FastAPI, Tailwind, RESTful API

**Development,** GraphQL, Bootstrap, jQuery, TensorFlow, PyTorch, NLTK

**Cloud & DevOps:** AWS (Elastic Beanstalk, S3, Lambda, EC2), Azure, Docker, Jenkins, GitHub Actions, Kubernetes

**Databases & Tools:** PostgreSQL, MongoDB, MySQL, Git, Jira, Confluence, Postman, Swagger

**Software Development & Methodologies:** Integration Testing, Unit Testing, TDD, API Integration,

Agile/Scrum/Kanban, CI/CD, Code Review, Microservices, Serverless, Design Patterns, Performance Optimization,

Natural Language Processing, Large Language models