Mohamed Amara

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EDUCATION

Cuny College of Staten Island
Staten Island, NY
Bachelor of Science in Computer Science
Graduation Date: May 2027

WORK EXPERIENCE

Auristor
Washington, DC
Software Engineering intern
Mar 2025 - May 2025

- Developed a **Go-based** monitoring system monitoring 150+ metrics with **Grafana** dashboards, reducing the amount of times it took us to detect issues by 40%.
- Worked with the team to translate design **mockups** into real functional user interface.
- Collaborated with cross-functional teams to translate UI/UX design mockups into responsive web interfaces using React and Tailwind CSS
- Implemented **Docker** containerization and Jenkins CI/CD pipelines, enabling weekly deployments with zero downtime
- Served as team's monitoring specialist, training 8+ colleagues on dashboard interpretation and system troubleshooting.

CodePath
New York
Cyber Security Intern
Feb 2023 - May 2023

- Secured learning servers by implementing input **sanitization** protocols, **blocking** 95% of **malicious** attacks and preventing unauthorized access
- Collaborated with frontend engineers to implement client-side security and rigorous data validation **restrictions**
- Acquired hands-on defensive security and penetration testing skills through practical experience and real-world application.
- Conducted penetration testing and **vulnerability** assessments on 10+ web applications.

PROJECT EXPERIENCE

AI Audio Stem Separator
New York
Full Stack Application
Jan 2025 - Jan 2025

- Created AI-powered application that isolates songs into 4 distinct components: vocals, drums, bass, and instruments with 99% accuracy.
- Built scalable **API** endpoints using **FastAPI** to handle audio processing and file management.
- Training the module to identify audio frequencies was a little bit hard to do, but with research, I was able to completely finish the project to achieve 99% **accuracy** in segregating different **instruments**.
- Developed both web interface and desktop application using Python, providing users with multiple access points.

Spotlight
Remote
Team Lead & Developer
Apr 2025 - May 2025

- Led team of 5 developers to build **award-winning** student project showcase platform with integrated feedback system.
- Implemented secure cloud infrastructure using **AWS** for multimedia file storage (videos, images, audio).
- User data was securely stored in Supabase with robust authentication systems and maintained reliable session management.
- Managed project architecture decisions and coordinated feature development across frontend and backend teams.

SKILLS & TECHNOLOGIES

Skills: Python, JavaScript, TypeScript, Go, Java, C++, PHP, SQL

Technologies: OpenCV, WebRTC, Git, Grafana, Machine Learning frameworks, ReactJS, AWS, GCP, Docker, Jenkins, CI/CD, Cloudflare, React, Next.js, HTML5, CSS3, Tailwind CSS, FastAPI, Flask, Node.js, Express.js