

Mahdi Ashrafee

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EDUCATION

University at Buffalo, School of Engineering
Bachelor of Science in Computer Science

Expected May 2027

- **GPA:** 3.63/4.00
- **Relevant Coursework:** Data Structures and Algorithms, Object-Oriented Programming, Systems Programming, Modern Network Concepts, Web Applications, Software Engineering, Artificial Intelligence

PROJECTS

ScamShield API

Jan 2023 – Present

Python, FastAPI, Amazon EKS, Kubernetes, Docker, Redis, Whisper

- Built an **AI-powered scam detection API** for email and voice analysis using Whisper and LLM inference.
- Containerized and deployed backend services on **Amazon EKS** with Kubernetes for scalable API processing.
- Implemented FastAPI microservices with over **99%** detection accuracy and cloud-native architecture.

RoboRush

Sep 2024 – Feb 2025

Python, TCP, WebSockets, React

- Developed backend services for an autonomous campus delivery platform connecting interfaces and hardware.
- Engineered low-level **TCP** socket communication for real-time robot telemetry and secure command execution.
- Implemented asynchronous **WebSocket** event loops enabling live order dispatch and frontend synchronization.

EXPERIENCE

Volunteer Software Engineer (USABD Sonographer Society Inc.)

Nov 2025 – Present

Go, React, PostgreSQL, Tailwind CSS

- Developed the official production web application serving **70+ healthcare professionals** nationwide.
- Built a high-performance, decoupled **Go backend handling REST** routing, memberships, and course data.
- Designed responsive React and Tailwind CSS UI components to deliver a seamless learning experience.

OPEN SOURCE

AWS CDK (Amazon Web Services)

TypeScript, Python

- Updated the .NET prerequisite **check regex** to support .NET 10 SDK versions and prevent setup failures.
- Removed deprecated CodeBuild image constants from the official framework to complete v1 end-of-life cleanup.

SKILLS

Languages: Python, Go, TypeScript, C++

Frameworks/Tools: Nvim, Docker, Git, Linux, React JS

Cloud/Backend: AWS (Lambda, API Gateway, Fargate, EKS, CloudFront, RDS, CI/CD)

Databases: MySQL, DynamoDB, MongoDB