

Yousef Mardrosyan

(248)-808-0446 | yousefm2315@gmail.com | linkedin.com/in/yousef-mardrosyan-3b38b4268 | github.com/azvali

EDUCATION

Oakland University

Bachelor of Science in Computer Science

Rochester Hills, MI

Expected Graduation: Dec 2024

- GPA: 3.5/4.0
- Dean's List: Fall 2021, Winter 2022, Fall 2022, Winter 2023, Fall 2023, Winter 2024

EXPERIENCE

Software Engineering Intern

June 2024 – Aug 2024

Department of Homeland Security (Remote)

- Redesigned the Chief of Staff landing page, improving user experience and modernizing the interface.
- Ensured all content and documents met Section 508 compliance, improving accessibility.
- Utilized Figma for wireframing and coordinated with developers to deploy the new site.

Research Assistant

May 2023 – June 2024

Oakland University

Rochester Hills, MI

- Developed AI-enhanced tools using Python and GPT models, including a UML generator to improve fault tolerance.
- Identified vulnerabilities in AI frameworks such as PyTorch and TensorFlow.
- Collected and analyzed data, improving research efficiency and outcomes.

CS Grader

Jan 2024 – Apr 2024

Oakland University

Rochester Hills, MI

- Graded assignments for 60 students, ensuring accuracy and timely feedback.
- Provided constructive feedback, improving student understanding of complex topics.
- Collaborated with Professor Othman to maintain grading consistency.

PROJECTS

Fooducate | *React Native, Machine Learning, Firebase*

- Led development of an AI-powered nutrition app, utilizing API integrations to identify nutritional values from images.
- Implemented GPT API models for interactive guidance, improving user engagement.
- Utilized Firebase for data storage and authentication, enabling seamless tracking of calories and nutrients.

AI Assistant | *Python, Tkinter, GPT API*

- Created a Python-based chatbot using GPT API, assisting students with project development and UML diagram generation.
- Deployed in a sophomore project class, improving student project quality.
- Applied AI to enhance educational outcomes and student learning experiences.

Sort Visualizer | *HTML5, CSS3, JavaScript*

- Developed an interactive tool to visually demonstrate sorting algorithms like Bubble Sort and Quick Sort.
- Designed a user-friendly interface with customizable settings for algorithm selection and speed adjustment.
- Ensured cross-device compatibility, engaging over 1,000 users.

TECHNICAL SKILLS

Soft Skills: Communication, Teamwork, Problem-Solving, Leadership

Languages: Java, Python, JavaScript, C++, SQL, C

Frameworks/Tools: React, Node.js, Flask, Tkinter, Figma, Git, Docker, Firebase

Technologies: Machine Learning, API Integration, Section 508 Compliance

Libraries: pandas, NumPy, Matplotlib, GPT API

Other: Linux, JSON, React Native, Visual Studio Code, SQL (Postgres)