Yousef Mardrosyan

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EDUCATION

Oakland University — Rochester Hills, MI
Bachelor of Science in Computer Science, Graduated December 2024
- GPA: 3.61/4.0
- Dean's List: Fall 2021 – Fall 2024

EXPERIENCE

Software Engineering Intern — June 2024 – Aug 2024
Department of Homeland Security (Remote)
- Redesigned the Chief of Staff landing page, modernizing the interface and improving user experience.
- Ensured Section 508 compliance and accessibility for all content and documents.
- Created wireframes in Figma and collaborated 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 for tasks like UML diagram generation.
- Identified vulnerabilities in PyTorch and TensorFlow, improving AI framework reliability.
- Streamlined data collection and analysis for higher research efficiency.

CS Grader — Jan 2024 – Apr 2024
Oakland University — *Rochester Hills, MI*
- Provided timely and accurate grading for 60+ students.
- Delivered constructive feedback to enhance understanding of complex topics.
- Maintained grading consistency in collaboration with Professor Othman.

PROJECTS

Fooducate | *React Native, Machine Learning, Firebase*
- Led an AI-driven nutrition app that identifies nutritional values from images using API integrations.
- Implemented GPT API for interactive guidance, boosting user engagement.
- Utilized Firebase for storage and authentication, enabling real-time calorie tracking.

Parallel GPT Summaries | *TypeScript, GPT API, GitHub API*
- Built a web app to retrieve and summarize GitHub commits with GPT.
- Demonstrated performance gains by running requests in parallel vs. sequential.
- Integrated a timer to visualize the speed difference for user clarity.

Raspberry Pi Parking Availability Monitor | *Python, Flask, GPT API, Raspberry Pi*
- Engineered a camera-based system on Raspberry Pi to capture hourly parking lot images.
- Developed a Flask API to manage image uploads and relay data to the front end.
- Used GPT API to evaluate availability from "Very Low" to "Very High."
- Hosted live updates on a website for real-time status checks.

TECHNICAL SKILLS

Soft Skills: Communication, Teamwork, Problem-Solving, Leadership
Languages: Java, Python, JavaScript, TypeScript, C++, SQL, C
Frameworks/Tools: React, React Native, Node.js, Flask, Firebase, Figma, Git, Docker
Technologies: GPT API, API Integration, Raspberry Pi, Section 508 Compliance
Other: Linux, JSON, Visual Studio Code, UML Diagramming