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
- Redesigned the Chief of Staff landing page to a modern design improving user experience.
- Ensured Section 508 compliance and accessibility for all internal content.
- Developed wireframes in Figma and worked with programmers to deploy the new site.

Research Assistant   May 2023 – June 2024
Oakland University   *Rochester Hills, MI*
- Created automation Python script which developed UML diagrams for students projects.
- Discover vulnerabilities in PyTorch and TensorFlow functions, improving overall framework reliability.
- Performed data collection and analysis with PhD students regarding their research.

Teaching Assistant, Computer Science   Jan 2024 – May 2024
Oakland University   *Rochester Hills, MI*
- Collaborated with professor to grade assignments and projects for a class of 60 students.
- Held office hours to assist students with programming concepts and course material.

PROJECTS

Whisp | *React, Flask, PostgreSQL, SocketIO, JWT Authentication, REST APIs*
- Developed a full-stack messaging web-app with real-time friend requests and messaging using SocketIO for instant sending and receiving.
- Created secure user authentication with JWT tokens, password hashing, and email password recovery.
- Designed a RESTful API backend in Flask with endpoints for user management, messaging, and friendship tracking.
- Built a React front-end with user login interface, chat interfaces, and displaying contacts.

Fooducate | *React Native, Authentication, Firebase, OpenAI API, Computer Vision*
- Developed a nutrition app that analyzes food images to gather nutritional data.
- Incorporated AI nutrition coach for personalized dietary coaching.
- Used Firebase for secure authentication and calorie tracking.

Raspberry Pi Parking Monitor | *Python, Flask, GPT API, Raspberry Pi, GCP, REST APIs*
- Created a Raspberry Pi camera system to capture hourly parking lot images to notify students of availability.
- Developed a Flask API to handle image uploads from cameras, process the images, and send updates to the front end.
- Deployed the project on Google Cloud Platform using Kubernetes for real time updates for students.

TECHNICAL SKILLS

Primary Languages: Python, Java, JavaScript, SQL , HTML, CSS
Advanced Frameworks: React, Flask, Node.js
Database Technologies: PostgreSQL, Firebase, SQL Server
Web Technologies: REST APIs, SocketIO, JWT Authentication, JSON
Development Tools: Git, Docker, Visual Studio Code, Linux
Additional Skills: C++, C, React Native, API Integration, UML Diagramming