

Oliver Majano

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EDUCATION

San Jose State University

San Jose, CA

B.S. in Computer Science

May 2027

- o GPA: 3.8/4.00, Dean's List
- o Related Coursework: Data Structures & Algorithms, Computer Systems, Discrete Math, Object Oriented Programming

EXPERIENCE

Software & Computer Engineering Society

San Jose, CA

Intern Lead

December 2024 - January 2025

- Led a club internship, managing a team of 4 software engineering students to develop a dynamic leaderboard for 100+ users
- Queried LeetCode's GraphQL API to track user stats weekly, storing progress in an SQLite database for persistence
- Developed a FastAPI backend to process requests, update rankings, and serve real-time leaderboard data
- Engineered a Raspberry Pi system with a HUB75 HAT, chaining four LED panels for dynamic leaderboard display
- Designed a frontend with user registration, real-time previews, and an admin dashboard for user management and rankings.

SJSU College of Engineering

San Jose, CA

Software Engineer Intern

June 2024 - July 2024

- Developed and deployed a URL shortening service using FastAPI, SQLite, Docker, and React for a club with 500+ users
- Designed a scalable backend architecture using SQLite for efficient URL storage and HTTP 302 redirection
- Implemented a responsive frontend using React, ensuring seamless user interaction and fast loading times
- Tracked performance metrics such as redirect response times and error rates to improve system reliability

PROJECTS

Canvai

Next.js, TypeScript, Python, Supabase, FastAPI

- Built the backend of a Chrome extension using Gemini 2.0 Flask, implementing AI-driven tools with functional tool calling.
- Developed AI-powered Canvas tools to fetch assignments, search files, and sync deadlines with Notion/Google Calendar.
- Designed so it integrates with Canvas, providing intelligent search, assignment tracking, and AI-assisted task management.

Stock Tracker

React, REST API, JavaScript, Python

- Built a real-time stock tracking app using React and integrated the Finnhub API to display stock prices
- Managed state and user input with React hooks, implemented controlled components for seamless interaction
- Enabled dynamic data fetching bound to user actions, enhancing interactivity and a responsive experience
- Utilized conditional rendering to provide real-time feedback, ensure accurate and user-friendly display of data

NutriLense – AR Nutrition Assistant

Snap Spectacles (Beta), JavaScript, TypeScript, Python, FastAPI

- Developed a voice-activated AR app using Snap Spectacles for real-time food recognition and nutritional analysis
- Built a Python FastAPI backend to process frame captures, delivering nutritional insights with a 2-second response time
- Implemented a voice-command functionality that provided meal suggestions based on user-provided ingredients

Reverse Rate My Professor

React, Java, SpringBoot, SQL

- Developed a full-stack React and Spring Boot web app to rank professors for classes
- Applied sorting algorithms and used lists and maps to efficiently rank professors and retrieve class-specific results
- Built RESTful APIs to handle professor ratings and connect React frontend to a MySQL database

LEADERSHIP & EXTRACURRICULARS

Software & Computer Engineering Society

San Jose, CA

Dev Team Lead

August 2024 – Present

- Lead the development team in planning and executing software projects, overseeing from planning to deployment.

SKILLS

- **Languages:** Python, Java, JavaScript, SQL, HTML/CSS
- **Frameworks:** React, FastAPI, Express, JavaSwing, Next.js
- **Tools:** Git, Postman, MySQL, SQLite, Postgres, SpringBoot, MongoDB, Docker