

Oliver Majano

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EDUCATION

San Jose State University

B.S. in Computer Science

San Jose, CA

May 2027

- o **Related Coursework:** Data Structures & Algorithms, Computer Systems, Discrete Math, Object-Oriented Programming

EXPERIENCE

Software & Computer Engineering Society

San Jose, CA

Development Team Lead

August 2024 - Present

- Led a team through the full development lifecycle, ensuring seamless execution and timely project delivery
- Implemented API integrations and optimized database management to enhance efficiency and data accuracy
- Developed scalable backend solutions to handle real-time data processing, ranking, and user interactions
- Optimized software architecture to improve system functionality, enhancing real-time display performance

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 to integrate with Canvas, providing intelligent search, studying tools, and AI-assisted task management

A.V.A

Python, FastAPI, Groq, Perplexity, LangChain, ElevenLabs

- Engineered a voice-controlled browser assistant with a 90% command execution accuracy by refining AI orchestration
- Tackled slow AI response times by implementing Groq and Perplexity Sonar, reducing latency by 65%
- Developed agentic AI solution with LangChain, enabling users to automate email writing and flight booking
- Won Best Multimodal Use of Groq prize against 36 competing teams

NutriLens – 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 RateMyProfessor

React, Java, SpringBoot, SQL

- Built a full-stack search engine that enables students to find and compare professors for specific courses.
- Streamlined professor selection, reducing decision times from 15+ min to 20 sec by centralizing website data
- Optimized ranking algorithms, cutting search time by 70% for large queries

LED Leetcode Leaderboard

Python, React, SQLite, Raspberry Pi

- Designed and developed a dynamic leaderboard for 100+ users, coordinating a team of four software engineering students
- Integrated 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

SKILLS

- **Languages:** Python, Java, JavaScript, SQL, HTML, CSS
- **Frameworks:** React, JavaSwing, Next.js, MongoDB, Flask
- **Tools:** Git, Postman, MySQL, SQLite, Postgres, SpringBoot, MongoDB, Docker
- **Libraries:** FastAPI, LangChain, NumPy, Groq