




# Tomas Oh

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## Education

California State University, Fullerton

Expected Graduation: December 2025

Bachelor of Science in Computer Science, Minor in Mathematics

GPA: 3.95

Relevant Coursework: Data Structures, Software Engineering, Operating Systems, Web Back-End Engineering

## Experience

Data Science and AI/Robotics Research Assistant | Project ACCESS at CSUF

June 2024 – Aug 2024

- Completed a ten-week research program, attended data science and AI/robotics lectures, and collaborated with a team of three to build projects addressing emerging social justice issues
- Implemented fall-detection and emergency alerting functionalities for a **Raspberry PI** AI Vision Robot Car, utilizing YOLO v8 pose-detection model, SQLite to store owner information, and SMTB for text messaging
- Developed a machine learning model with NumPy, Pandas, and scikit-learn to predict salaries in the technology industry based on demographic data, using **70,000+** responses from the Stack Overflow 2022 Developer Survey


Supplemental Instruction Leader | California State University, Fullerton

Jan 2024 – Present

- Conducted weekly sessions to reinforce students' understanding of **multivariable** and **vector calculus** concepts
- Integrated interactive and collaborative study techniques to help improve problem-solving skills for complex topics
- Fostered active participation and peer discussion with **30+** students, resulting in a **10%** average grade increase

## Projects

vimaroo | SvelteKit, TypeScript, TailwindCSS, Supabase, Monaco, Vim

 vimaroo.vercel.app

- Built a web application that allows users to practice **Vim** keybindings, featuring interactive, motion-focused tests
- Used Supabase and PostgreSQL for authentication, user management, and real-time user statistics storage
- Added editor customization settings integrated with the **Monaco** code editor (word wrap and font size)

go-blueprint | Go, Cobra CLI

 Melkeydev/go-blueprint

- Contributed to an open source CLI tool that spins up Go projects with popular frameworks (**2.6k+** GitHub stars)
- Implemented a flag that allows users to opt out from creating a git repository, resolving **16%** of reported bugs

## Skills

**Programming:** C, C++, Python, TypeScript/JavaScript, Go, Java, Rust, HTML/CSS, SQL

**Web Development:** Next.js, ReactJS, Node.js, Svelte/SvelteKit, FastAPI, NumPy, Pandas, scikit-learn, TailwindCSS

**Services & Tooling:** PostgreSQL, SQLite, MongoDB, Supabase, Firebase, AWS

**Tools:** Git, Linux, Vim/Neovim, tmux, Jupyter Notebook, Postman, MS Office, Figma

## Leadership

Open Source Software Team Lead | Association for Computing Machinery (ACM)

Aug 2024 – Present

- Led an **open source software** initiative within CSUF's largest computer science club, consisting of **60+** contributors
- Collaborated with fellow members to build **20+** open source projects that benefited the community, exposing students to multiple languages, technologies, and design patterns
- Advanced weekly workshops centered around open source development, inviting open source maintainers as guest speakers, ultimately increasing the number of attendees by **50%** from previous years

Web Development Team Lead | FullyHacks 2025

July 2024 – Present

- Collaborated with a team of six to build the website for CSUF's 24-hour hackathon (**400+** applicants, **10** sponsors in 2024)
- Implemented multiple pages and refactored **Next.js** and **TypeScript** codebase for a more consistent architecture
- Delegated tasks to teammates, documented bugs and feature requests, and actively contributed to code reviews