




Tomas Oh

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Education

California State University, Fullerton

Aug 2022 – Dec 2025

B.S. Computer Science, Minor in Mathematics

GPA: 3.95/4.0

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

Experience

Web Development Team Lead | *FullyHacks 2025*

Aug 2024 – May 2025

- Led a team of 7 to build the website for FullyHacks, the largest 24-hour hackathon at California State University, Fullerton.
- Developed the web application with **Next.js**, **React**, and **TypeScript**, utilizing **MongoDB** for efficient data handling, attracting **400+ applicants and 10 sponsors**.
- Streamlined project workflow by integrating a CI/CD pipeline, delegating tasks, and conducting weekly meeting cycles.

Supplemental Instruction Leader | *California State University, Fullerton*

Jan 2024 – May 2025

- Conducted weekly sessions to reinforce **multivariable** and **vector calculus** concepts through practical examples.
- Designed collaborative group challenges to enhance students' conceptual understanding of complex mathematical topics.
- Facilitated active engagement and peer-led discussions among **30+** students, leading to a **10%** improvement in class performance.


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

June 2024 – Aug 2024

- Spearheaded two project initiatives, collaborating with 5 researchers in building solutions to address social justice issues.
- Built an ML model with **Python** and **scikit-learn** to predict salaries in the tech industry based on demographic data.
- Integrated fall-detection and emergency alerting functionalities for a **Raspberry PI 5** Robot Car with YOLO v8 pose-detection – selected by the program's director to document our findings in an IEEE conference paper.

Projects

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

 [tomasohCHOM/vimaroo](https://github.com/tomasohCHOM/vimaroo)


- Created a web application that allows users to practice **Vim** keybindings, featuring interactive, motion-focused tests.
- Leveraged **Monaco** editor and **Svelte's** state management by incorporating various game modes and user customizations.
- Seamlessly integrated authentication and real-time user statistics, attracting **100+** users and earning **30+** GitHub stars.

aoc-dailies | *Deno, TypeScript, Discord REST, Advent Of Code*

 [tomasohCHOM/aoc-dailies](https://github.com/tomasohCHOM/aoc-dailies)

- Implemented a Discord webhook to send Advent Of Code daily challenge notifications to a server with **2000+** members.
- Automated daily challenge updates with **cron jobs** and **web scraping**, delivering them via Discord embeds.

go-blueprint | *Go, Cobra CLI, Docker, Vite*

 [Melkeydev/go-blueprint](https://github.com/Melkeydev/go-blueprint)

- Contributed to an **open source** CLI tool that spins up Go projects with popular frameworks (**4.700+** GitHub stars).
- Resolved **16%** of reported bugs by implementing a proper git repository integration step for generated projects.

Skills

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

Web Development: Node.js, Express, Next.js, ReactJS, Svelte, Flask, FastAPI, TailwindCSS

Databases & Cloud: PostgreSQL, SQLite, MongoDB, Supabase, Firebase, AWS, Docker, Redis

Tools: Git, Bash, Linux, Vim, REST APIs, CI/CD, Jupyter Notebook, Postman, MS Office

Leadership

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

Aug 2024 – May 2025

- Led an **open-source software** initiative within CSUF's largest computer science club, consisting of **100+** contributors.
- Advanced weekly workshops focused on open-source development, incorporating interactive sessions and guest talks by open-source maintainers, resulting in a **50%** increase of attendees compared to previous years.
- Collaborated with fellow team members to develop **20+** open-source projects (full-stack, front-end, and infrastructure).