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: 3.95/4.0*
Relevant Coursework: OOP, 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, collaborating with a team of three to build projects addressing 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 to predict salaries in the technology industry based on demographic data, using NumPy, Pandas, and scikit-learn and **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, ultimately increasing average student grades by **10%**.

Projects

vimaroo | *SvelteKit, TypeScript, TailwindCSS, Supabase, Monaco, Vim*   ⌽ tomasohCHOM/vimaroo
- Built a web application that allows users to practice **Vim** keybindings, featuring interactive, motion-focused tests.
- Implemented authentication, user management, and real-time statistics tracking using Supabase and PostgreSQL.
- Achieved community recognition with **30+** GitHub stars and **100+** upvotes on the Vim and Neovim subreddits.

go-blueprint | *Go, Cobra CLI, Docker, Vite*   ⌽ Melkeydev/go-blueprint
- Contributed to an open source CLI tool that spins up Go projects with popular frameworks (**4.700+** GitHub stars).
- Implemented a flag that allows users to opt out from creating a git repository, resolving **16%** of reported bugs.

aoc-dailies | *Deno, TypeScript, Discord REST, Advent Of Code*   ⌽ tomasohCHOM/aoc-dailies
- Created a Discord webhook to send Advent Of Code daily challenge notifications for **2000+** active participants.
- Set up a cron job to scrape challenge information upon new daily releases, delivering them via Discord embed messages.

Skills

Programming: C, C++, Python, TypeScript/JavaScript, Go, Java, Rust, HTML/CSS, SQL
Web Development: Node.js, Express, ReactJS, SvelteKit, Flask, FastAPI, TailwindCSS
Databases & Cloud: PostgreSQL, SQLite, MongoDB, Supabase, Firebase, AWS, Docker
Tools: Git, Bash, Linux, Vim/Neovim, REST APIs, CI/CD, Jupyter Notebook, Postman, MS Office

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.
- Worked with team members to develop **20+** open-source projects, fostering skill development and hands-on collaboration.
- 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.

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.