

Tomas Oh

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Education

California State University, Fullerton

B.S. Computer Science, Minor in Mathematics

Aug 2022 – Dec 2025

GPA: 3.96/4.0

Experience

Software Development Engineer Intern | Amazon Web Services

May 2025 – Aug 2025

- Designed and implemented a new **AWS Marketplace Catalog API** feature end-to-end using **Java**, **AWS Lambda**, Step Functions, CDK, S3, and **React/TypeScript**, enabling vendors to manage reseller agreements with less operational friction.
- Collaborated with PMs, UX designers, and cross-service teams to define customer requirements for **~3,500** Marketplace ISVs and ensure alignment with business and compliance needs.
- Created a **Python CLI** tool to simplify execution of asynchronous API workflows, increasing testing efficiency time by **35%**.
- Developed a **React** page in the Marketplace website that provides customers visibility into their Catalog API request history.

Supplemental Instruction Leader | California State University, Fullerton

Jan 2024 – Dec 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 **50+** students, leading to **13-18%** higher 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 alert system for a **Raspberry PI 5** Robot Car with Python and YOLO v8 model detection.

Projects

vimaroo | SvelteKit, TypeScript, TailwindCSS, PostgreSQL, 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.
- Designed a minimal and customizable testing experience, allowing users to target specific Vim motions and skills.
- Seamlessly integrated authentication and real-time user statistics, attracting **100+** users and earning **35+** 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.

Skills

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

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

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

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.
- Organized weekly workshops focused on open-source development, incorporating interactive sessions and guest talks by open-source maintainers, resulting in a **50%** increase in attendees compared to previous years.
- Collaborated with fellow team members to develop **20+** open-source projects (full-stack, front-end, and infrastructure).

Full-Stack Development Lead | FullyHacks 2025

Aug 2024 – May 2025

- Led a team of 7 developers to launch the official website for FullyHacks, CSUF's largest 24-hour hackathon.
- Designed a responsive web application with **React**, and **TypeScript**, while storing application submissions in **MongoDB**.
- Attracted **400+** applicants and secured **10** sponsors by creating a polished user experience across the website.