



Tomas Oh

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Education

California State University, Fullerton

Aug 2022 – Dec 2025

B.S. Computer Science, Minor in Mathematics

GPA: 3.96/4.0

Experience

Software Development Engineer Intern | Amazon Web Services

May 2025 – August 2025

- Developed a core feature under the **AWS Marketplace** Catalog API using **Java**, AWS Lambda, CDK, S3, and Step Functions, streamlining vendor-partner relationships and reducing friction within reselling agreements.
- Built an internal CLI tool in **Python** to facilitate execution of asynchronous workflows, speeding endpoint testing by **35%**.
- Implemented a new page using **React** query hooks for customers to view API requests history on the AWS Marketplace UI.

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 **10%** 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

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- 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

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- 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

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

Databases & Cloud: PostgreSQL, SQLite, MongoDB, AWS, Firebase, 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.
- 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.