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, Algorithm Engineering, File Structures and Databases

EXPERIENCE

Data Science Research Assistant | *Project ACCESS* May 2024 – June 2024
- Completed a five-week research program, utilizing data science knowledge to address emerging social justice issues
- Co-developed a model to predict technological industry salaries based on demographic data using NumPy, Pandas, and scikit-learn and utilizing the Stack Overflow 2022 Developer Survey
- Provided a web interface to interact with the predictor model using Svelte and FastAPI

Supplemental Instructor | *California State University, Fullerton* Jan 2024 – Present
- Conducted weekly sessions to reinforce understanding of Calculus III concepts for **10+** students
- Integrated interactive and collaborative study techniques to help improve problem-solving skills for complex topics
- Fostered active student participation and peer discussion, resulting in a **10%** average grade increase

PROJECTS

Fullyhacks | *Next.js, ReactJS, TypeScript, TailwindCSS, MongoDB, Prisma* ⌑ acmcsufoss/fullyhacks
- Collaborated as a team of six to redevelop the full-stack web application for Fullyhacks, the largest **year-round hackathon** at California State University, Fullerton
- Implemented UI components across different pages, including the landing page, application page, and user portal
- Worked closely with the project lead to deliver an enhanced user experience for **500+** users

QuizZard | *SvelteKit, TypeScript, TailwindCSS, Supabase* ⌑ tomasohCHOM/QuizZard
- Created a full-stack quiz web application built for interactive learning and enhancing Math SI sessions
- Utilized Supabase for Authentication and **CRUD** operations to enable users to build their own quizzes

char-roles-bot | *Deno, TypeScript, Discord REST API* ⌑ tomasohCHOM/char-roles-bot
- Developed a Discord application to automatically assign/remove roles in a server via slash commands
- Utilized the Discord REST API to handle **80+** roles for a server with **400** members

MatriXpert | *ReactJS, JavaScript, KaTeX, Vitest* ⌑ tomasohCHOM/MatriXpert
- Built a comprehensive calculator website capable of performing multiple linear algebra operations (matrix multiplication, transpose, determinant, etc.)
- Generated end-to-end unit testing on the underlying matrix algorithms using **Vitest**

github-stats | *Go, Github API* ⌑ tomasohCHOM/github-stats
- Created an interactive CLI application to fetch GitHub user stats (issues, pull requests, and earned stargazers)

SKILLS

Programming: C, C++, Python, TypeScript, JavaScript, Go, Java, HTML/CSS, SQL
Web Development: Next.js, ReactJS, Node.js, Deno, Svelte/SvelteKit, FastAPI, Sass, TailwindCSS
Databases/Services: MySQL, SQLite, MongoDB, Supabase, AWS, Netlify, Vercel
Tools: Git, Vim/Neovim, Jupyter Notebook, Postman, MS Office, Figma

EXTRACURRICULARS

Open Source Software Team Lead, Officer | *Association for Computing Machinery (ACM)* Jan 2023 – Present
- Led one of the branches of the **largest computer science club** at California State University, Fullerton
- Maintained the club's **Open Source Software** initiative and organization, tailoring workshop and project ideas toward Open Source development and its impact in the engineering space
- Collaborated with fellow student developers to build software tools with positive impacts on the community