

Andrew Wang

awwang3@uci.edu | [linkedin.com/in/andrew-wang0/](https://www.linkedin.com/in/andrew-wang0/) | github.com/andrew-wang0 | andrew0.com

EDUCATION

University of California, Irvine

Irvine, CA

B.S. Computer Science — GPA: 3.90

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, SQL, HTML, CSS, Python, Java, Kotlin, C++, C#, PHP, Lua, R, Matlab

Tools & Libraries: Git, Bash, Node, Express, Prisma, PostgreSQL, MySQL, Redis, MongoDB, Docker, REST, GraphQL, Next.js, React, SvelteKit, Laravel, Tailwind, WebSockets, Unity, Google Cloud, AWS

EXPERIENCE

Naval Postgraduate School

Summers 2022 – 2024

Simulations Intern

Monterey, CA

- Developed wargaming environments to model radar systems, missile defense, and maritime operations
- Performed Python analysis on Monte-Carlo simulations data to evaluate the effectiveness of naval systems
- Updated weapons databases in SQL to reflect latest missile capabilities onboard Arleigh Burke-class destroyers

UCI Machine Learning Repository

2024 - Present

Full-Stack Developer

Irvine, CA

- Developed and maintain UC Irvine's database of 600+ datasets, with 3M+ yearly active users across the world
- Introduced new features and bug fixes on a SvelteKit frontend and a TRPC + MySQL backend
- Built a public REST API for accessing datasets and metadata

ICS Student Council

2023 - Present

Project Lead - Anteater API

Irvine, CA

- Lead a team of 8 developers to maintain an API providing university data to 40K+ students
- Managed an open-source REST & GraphQL API built on Typescript, Prisma, & Postgres
- Deployed on AWS to serve 200K+ monthly requests from AntAlmanac, PeterPortal, Zotistics, and more

Applied Solar Energy

Summer 2023

Data Analyst Intern

Pacific Grove, CA

- Developed data analysis software to parse and graph PG&E thermal and electricity usage data
- Analyzed energy bills using Component Pascal to optimize the cost/benefit of solar systems for consumers
- Modeled solar panel + battery configurations to predict energy savings with PG&E rates

PROJECTS

GE-Z: CC Course Reverse Search [🔗](#) | *TS, Express, Prisma, Postgres, OpenCV*

2023 – Present

- Developed the backend for a comprehensive community college course finder with 250+ active monthly users
- Built a custom PDF parser using Python, computer vision, and OCR to extract course data from assist.org
- Designed and deployed a custom Postgres database in Prisma to efficiently store and retrieve 100,000+ courses

Rebold: CS Education Software [🔗](#) | *PHP, Laravel, Livewire, Tailwind*

2023 – Present

- Created a Laravel app providing CS-focused teaching & learning solutions for Monterey Peninsula College
- Implemented the CanvasLMS API for streamlined assignment creation and grading
- Utilized by 100+ students per semester in introductory and advanced CS courses

Agentic: Accessibility Large Action Model [🔗](#) | *JS, WebSockets, Selenium, Gemini*

2024

- Architected a Large Action Model that translates natural language into browser-based actions
- Engineered a compression algorithm that transforms raw HTML into an AI-usable format
- Created a custom compiler to translate AI output into multi-step webpage interactions using Selenium