

Jason Wan

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Education

University of California, Los Angeles (UCLA) — BS Computer Science, GPA 3.6

Sep 2022 - Jun 2026 (Expected)

- **Coursework:** Computer Architecture, Algorithms, Operating Systems, System Security, Networks, Databases, Data Mining
- **Activities/Interests:** Poker Club, Fencing Club, Golf Club

Experience

Panasonic — Software Engineer Intern (Irvine)

Jun 2025 - Sep 2025

- Researched and developed an **end-to-end test framework** architecture for Python test automation for **QA processes** across 300+ airline hardware and UI, improving system design and **reducing** automation runtime by **~3 hours** per testing cycle
- Programmed **25+ Python scripts** automating 15+ software quality assurance procedures using proprietary APIs, Selenium, Appium, Squish, and network programming in a **Docker** environment, accelerating **CI/CD** automation pipelines by **35%**
- R&D an internal **LLM AI agent** trained on our framework, auto-generating **~100** test scripts based on test documentation
- Conducted 20+ **code reviews** in **Gitlab**, created **Confluence pages**, and deployed automation tools in **Agile** framework

HAcK UCLA — Code Mentor (Los Angeles)

Feb 2025 - Jul 2025

- Designed **smart glasses** using **Pi Pico** in C, camera, speakers, and **OpenAI API** for real-time image description
- Orchestrated workshops for **75+ UCLA students**, teaching coding, **Git** version control, and using public **APIs** in programs
- Administered a **3-day hackathon** where **20+** teams build and test their produced prototype in an escape room contest

Undergraduate Learning Assistant — UCLA (Los Angeles)

Apr 2025 - Dec 2025

- Leading course instruction in Computer Organization (CS33) as a UCLA Learning Assistant, helping **50+** students during weekly **discussion sections** and **conducted Project Workshops** (Bomb Lab)
- Leading course instruction for Data Structures (CS32) in C++ as a UCLA Learning Assistant

Vision Labs — Research Assistant (Los Angeles)

Sep 2022 - Aug 2024

- R&D an experimental model that combined **Stable Diffusion v2** and **Controlnet** to perform **multi-object segmentation**
- Implemented a multi-object segmentation pipeline in **Linux** using **Python, PyTorch, and Conda**, achieving **90% accuracy** and demonstrating **near human-level** distinction capabilities
- **Authored and presented a technical report** summarizing methods, experimental results, and future research directions.

Serval Ventures — Intern (New York)

Oct 2023 - Mar 2024

- Performed **data collection** for funding processes like average household income per state etc. via **Python web scraping**
- Implemented **Beautifulsoup4** and **Selenium** Python libraries to crawl web pages and stored them into **JSON files**

Projects

Systematic @ CalTech HackTech (Machine Learning + Full Stack Application)

Apr 2025

- CalTech's Premier Hackathon **Finalist**, collected data, calculated user sentiment, and assisted with model design

8-bit Turing Complete Minecraft Computer (Computer Architecture)

Aug 2024

- Designed and implemented a **8-bit** computer in Minecraft using redstone, featuring **32 bytes of RAM** and **four 8-bit registers**
- Implemented **circuit design** software for **planning** and verification while hand-making the entire computer structure in-game

Workspaces (Chrome Webstore Extension)

Jul 2024

- Developed a **Chrome Extension** that saves and restores tab windows, reducing memory usage and simplifying user workflows
- Published on the **Chrome Web Store**, built with **HTML, CSS, JavaScript**, and Chrome Extension Developer Tools

Honors/Awards

- Placed **Top 10** in the **2025 ACM Cyber Capture-The-Flag** Competition in the UCLA Division
- **Team Captain** HS Robotics - qualified for the **Vex World Championships** 3 years in a row, securing **3rd place globally**
- **Honors With Distinction AMC 12, Scored 6/15 AIME, Hypatia Invitational Distinction, Euclid Contest Distinction**
- **13th in Canada** in the UWaterloo Avogadro Chemistry Contest

Skills

Programming Languages: Python, C/C++, Java, SQL, HTML, CSS, JavaScript, TypeScript, SwiftUI, Kotlin

Tools/Frameworks: Linux, Bash, Git, Docker, TensorFlow, PyTorch, ReactJS, NodeJS, Jira

Other: 170 WPM, Mandarin (Fluent)