Aaron Wang

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Education

University of California, Riverside GPA: 3.59
Bachelor of Science in Computer Science *September 2022 - December 2025*

Experience

VR Quality Assurance Tester - Independent Contractor November 2025 – February 2026
Wevr *Burbank, CA*

- Collaborated with developers and designers to validate fixes and ensure stable application behavior before release.
- Identified, reproduced, and documented software defects related to user input, rendering, performance, and interaction logic
- Created detailed bug reports including reproduction steps, expected vs. actual behavior, and environmental conditions.

Projects

Obfin (Finance Manager & Advisor) | *JavaScript, React.js, Node.js, Firebase* GitHub

- Engineered financial management application that tracks transactions and offers AI assistant to help based on their financial context.
- Implemented scalable cloud-based infrastructure for the database via Firestore Database to display data collections as categories in numerous graphs using Recharts library.
- Integrated transaction editing/deleting that reflected changes both on visual graphs and on Firestore Database.
- Constructed backend portion (AI model calls) with Node.js + Gemini Flash API and frontend (interactive pages, forms, and charts) with React.js.

Self-Adjusting Lighting System | *Python, Firebase*

- Collaborated to build a dynamically changing lighting system that adjusted LED color in real-time based on the surrounding motion detected, ambient light levels, and current time.
- Developed a classifier to note the type of environment the light is in based on the motion detected, light, and current hour.
- Trained classifier using RandomForestClassifier and scikit-learn while using Firebase to store sensor logs and energy usage data via a web dashboard.
- Engineered Jetson Nano for machine learning classification and a Raspberry Pi/Arduino Uno for sensor input and outputs the daily logs on Firebase dashboard.

Parallelized Sudoku Solver | *Python* GitHub

- Developed and implemented both a parallelized and non-parallelized application of solving 9x9 Sudoku grids.
- Integrated multi-threading to parallelize the pre-computation of valid moves to enhance scalability and computational efficiency.
- Implemented caching to compute and store valid candidates for each cell, significantly reducing computational redundancy and improving runtime performance.
- Conducted performance testing and benchmarking, achieving a measurable speedup of 51.9% in comparison to the non-parallelized application.

Portfolio Website | *TypeScript, Next.js, Tailwind CSS* GitHub

- Built and deployed a full stack portfolio website using TypeScript and Tailwind to display resume.
- Implemented interactive and downloadable resume using TypeScript.
- Managed end-to-end development, including layout, styling, and production deployment through Cloudflare for optimized performance and availability

Technical Skills

Programming Languages: C/C++, JavaScript, SQL, Java, Python, TypeScript, HTML, CSS, Powershell
Security & Development Tools: Postman, Git
Cloud/Virtualization: Google Firebase, VMWare
Operating Systems: Windows, macOS, Linux, Ubuntu, Unix
Libraries & Frameworks: React, Angular, Node.js, Next.js, MongoDB