

Stanley Lew

📞 669-216-2812 ✉ stanley43595@gmail.com 🌐 stanleylew5.vercel.app 🐙 [stanleylew5](https://github.com/stanleylew5) 📄 [stanleylew5](https://stanleylew5.github.io)

Education

University of California - Riverside

Riverside, CA

BS in Computer Science

September 2023 - June 2027

Specialized Coursework: Operating Systems, Virtual Reality, Artificial Intelligence, & Machine Learning + Data Mining

Experience

University of California - Riverside

Riverside, CA

Undergraduate Researcher - Cooperative Intelligence

September 2025 - Present

- Evaluated **Swarm-SLAM**, an infrastructureless cooperative SLAM framework, on **EuRoC** datasets within a Dockerized **ROS 2 Humble Linux** environment, and built custom **Python** scripts using **Umeyama alignment** and **evo** to achieve low-RMSE trajectory comparisons
- Adapting **NVIDIA Alpamayo's** VLA training methodology to bring autonomous driving capability to the department's research vehicle

University of California - Riverside

Riverside, CA

Undergraduate Learning Assistant / C++ Tutor

March 2025 - Present

- Guided 100+ students through coding assignments and debugging labs covering data structures & program design
- Supported classes in C++ and software construction by hosting office hours and assisting in lab sessions

Association for Computing Machinery @ UCR (ACM@UCR)

Riverside, CA

Projects Director, Web Development Director, & Project Lead

February 2024 - January 2026

- Managed 45+ Next.js** and **5+ Figma projects** and hosted weekly check-in meetings with project leads to oversee development of websites for UCR's CSE department, student organizations, & external companies
- Increased ACM programs membership by over 150%**, driving engagement and participation through effective outreach and project-based learning opportunities for 100+ members quarterly
- Delivered production-ready websites using React, Next.js, & Tailwind: [ACM](#), [CSA](#), [WINC](#), and [WITL](#)

Designverse

Riverside, CA

Software Engineer

March 2024 - May 2025

- Directed a committee of 10+ web developers for the development of the official **Designverse 2025** website
- Developed **10+** schemas with **Zod** to handle user input for form validation within all Hackathon Portal forms

Projects

Starlight | *Next.js, Typescript, TailwindCSS, Tanstack Query, Firebase, Resend*

🐙 github.com/acm-ucr/starlight

- Reduced email drafting time by 80% by building a form-driven email templating system with **Firestore** and **Resend**
- Improved reviewer efficiency by 40% by building real-time dashboards with **TanStack Table** and **TanStack Query**
- Architected Firestore schema and REST API logic to support **Google OAuth authentication** via **NextAuth**, enabling secure **role-based access control (RBAC)** to manage permissions for admins and project leads

SWE AI Agent | *Python, Ollama*

🐙 github.com/acm-ucr/swe-agent

- Built core SWE-agent features to autonomously read, edit, and write code based on task prompts using models on **Ollama**, simulating real-world software engineering workflows
- Automated GitHub workflows so the agent could independently open pull requests, resolve merge conflicts, and merge changes into the target repository
- Engineered a task hierarchy and inter-device communication system using **ZeroMQ** and **JSON messaging** to coordinate actions between distributed components

R'Eats | *Python, BeautifulSoup, Next.js, Typescript, TailwindCSS, Github Actions*

🐙 github.com/stanleylew5/r-eats

- Improved student access to dining information, attracting **200+** unique daily users
- Developed a **Python** web scraping script with **BeautifulSoup** to structure dining menu data into JSON for parsing
- Optimized menu fetch requests by 30% by automating daily data updates with a **GitHub Actions** cron job

Technical Skills

Languages: C++, Python, Typescript, Javascript, React, React Native, HTML, CSS, MySQL

Frameworks & Technologies: Next.js, Supabase, Firebase, TailwindCSS, Resend, BeautifulSoup

Developer Tools: Git, Github, Google Cloud Platform, Ollama, CMake, GoogleTest, Github Actions, Linux, Docker

Project Management: Agile, Scrum, Kanban, Github Projects