Stanley Lew

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Education

University of California - Riverside   **Riverside, CA**
BS in Computer Science   *September 2023 - June 2027*

Technical Skills

Languages: Python, TypeScript, Javascript, React, C++, SQL, HTML, CSS
Frameworks & Technologies: Next.js, Firebase, Next Auth, TailwindCSS, Motion.Dev, Resend, BeautifulSoup
Developer Tools: Git, Github, Google Cloud Platform, Ollama, CMake, GoogleTest, Github Actions
Project Management: Agile, Scrum, Kanban, Github Projects

Work & Leadership Experience

Association for Computing Machinery @ UCR (ACM@UCR)   **Riverside, CA**
Projects Director, Web Development Director, & Project Lead   *February 2024 – Present*

- **Managed 40+ 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
- Enforced **CI/CD** workflows across multiple Spark teams with **GitHub Actions** to ensure consistent formatting, linting, and successful builds across all team contributions

University of California - Riverside   **Riverside, CA**
Undergraduate Learning Assistant / Tutor - Professor Neftali Watkinson   *March 2025 – Present*

- Facilitated student learning of data structure & program design concepts by guiding students through coding assignments, labs, and debugging strategies
- Supported classes of 100+ students in C++ and software construction by hosting office hours and assisting in lab sessions

Designverse   **Riverside, CA**
Software Engineer   *March 2024 – May 2025*

- Led a committee of 10+ web developers for the creation of the official **Designverse 2025** website
- Developed **10+** schemas with **Zod** to handle user input for form validation within all Hackathon Portal forms
- Led **Python** Discord Bot & Intro to **Frontend** Workshops at UCR Hackathons

Projects

Starlight | *Next.js, Typescript, TailwindCSS, Tanstack Query, Firebase, Resend*   ⭘ **github.com/acm-ucr/starlight**

- Designed and implemented a form-driven email templating system with **Firestore** and **Resend**; reduced time spent writing status emails by 80%
- Built real-time dashboards with **TanStack Table** and **TanStack Query**, improving reviewer efficiency by 40%
- 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.
- Designed scalable Firestore collections and subcollections to manage application data and project metadata

SWE AI Agent | *Python, Ollama*   ⭘ **github.com/acm-ucr/swe-agent**

- Implemented core SWE-agent features to autonomously read, edit, and write code based on task prompts using **Ollama**, simulating real-world software engineering workflows
- Engineered GitHub workflow automation for the AI agent to autonomously create 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 **500+** unique visitors on the first day and **200+** unique daily users since launch
- Developed a **Python** web scraping script with **BeautifulSoup** to extract and structure dining menu data into JSON for easier consumption
- Automated daily updates with a **GitHub Actions** cron job and optimizing fetch requests by 30% through mapped food and nutritional data