

# Stanley Lew

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## Education

University of California - Riverside

Riverside, CA

BS in Computer Science

September 2023 - June 2027

## Technical Skills

**Languages:** TypeScript, Javascript, React, C++, Python, SQL, HTML, CSS

**Frameworks & Technologies:** Next.js, Firebase, Next Auth, TailwindCSS, Motion.Dev, Resend

**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 & ACM Spark Director

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

San Jose, CA

Undergraduate Learning Assistant - Professor Neftali Watkinson

March 2025 - Present

- Host weekly office hours & attend weekly lab sections with 30+ students to provide a supportive learning environment

Designverse

Riverside, CA

Software Engineering Lead

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](https://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](https://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

ACM Atlas | Next.js, Typescript, TailwindCSS, Tanstack Query

🐙 [github.com/acm-ucr/acm-atlas](https://github.com/acm-ucr/acm-atlas)

- \* Built a centralized platform visited by **hundreds of UCR students** to discover upcoming events, explore project opportunities, and engage with ACM programs.
- \* Led a team of 15+ developers, teaching technical skills in **Next.js**, **TypeScript**, **TailwindCSS**, **Motion.Dev**, and **Tanstack Query**
- \* Led **agile** sprints as **product owner**, managing team priorities and progress with **weekly stand-up meetings** to ensure timely delivery of project milestones
- \* Developed a dynamic calendar feature by aggregating events from multiple **Google Calendars** for week and month views