

Simon Cun

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Education

University of California Riverside

Bachelor of Science in Computer Science

- Relevant Coursework: Data Structures & Algorithms, Discrete Structures, Software Design
- Awards: Chancellor's Honors List, Chancellor's Scholarship

GPA: 3.93/4.00 | Riverside, CA

September 2024 – May 2027

Technical Skills

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

Frameworks: React, React Native, Next.js, Node.js, Expo, Tailwind/NativeWind

Databases & Cloud: Supabase, PostgreSQL, AWS

Tools: Git, GitHub, Figma, OpenAI, Linux

Work & Extracurricular Experience

Undergraduate Learning Assistant

Riverside, CA

Undergraduate Learning Assistant / Tutor - Professor Neftali Watkinson

October 2025 – Present

- Supported classes of **100+ students** in assembly language programming, computer architecture, and machine-level data representation through one-on-one and group tutoring sessions.
- Assisted students during **weekly lab sessions** with LC-3 assembly **debugging**, instruction execution, and **memory organization** concepts to reinforce course understanding.

Association for Computing Machinery @ UCR (ACM@UCR)

Riverside, CA

Software Engineer, Web Developer, & VP of Internal Affairs

December 2024 – Present

- Developed and refactored ACM projects, enhancing code efficiency and system performance by **30%**, while contributing to both **frontend and backend systems** for student-led software development.
- Transformed **5+ Figma wireframes** into responsive websites, implementing UI components and aligning visual design goals through weekly collaboration meetings.
- Managed internal documentation and scheduling for ACM Internal Affairs, streamlining event coordination by **40%** and resource tracking, overall **increasing community engagement by 60%**.
- Organized and supported **10+ events** per quarter, ensuring smooth communication within organization, and officers.

Projects

Cutie Mood | React Native, Expo, Gemini API, TypeScript, PostgreSQL

github.com/kellyma626/cutieMood

- Co-developed a cross-platform mobile app for mood tracking and journaling by integrating React Native and Expo, resulting in **120+** entries logged during testing.
- Integrated **Supabase** for secure data storage and synchronization, enabling seamless cross-device use and increasing reliability with offline-first support.
- Designed a **calendar-based** UI for mood tracking by implementing interactive views and edit/delete functionality, improving user accessibility to personal mood history.
- Built and connected a chatbot interface to the **Gemini API** with error-handling fallbacks, ensuring uninterrupted user experience during API downtime.

Autonomous Drone | Python, SolidWorks, Git

github.com/acm-ucr/drones-skyflow

- Engineered drone body parts and precision jigs in SolidWorks, reducing calibration errors by **15%** and supporting flight accuracy.
- Helped debugging and refinement of Python-based control algorithms, improving drone stability and autonomy by **20%**.
- Conducted extensive **stress testing** on drone chassis and motor systems under variable loads, increasing durability and structural reliability by **25%**.

Upcycle To Overcome | HTML, CSS, JavaScript

github.com/Simon-Cun/UpcycleToOvercome

- Collaborated in a team of 4 at **RoseHack** to design a sustainability-focused web app, winning the **Beginner Track Award** among **100+ competitors**.
- Built a fully functional website in **24 hours** showcasing upcycling benefits through educational content and interactive design, recognized by judges for creativity and impact.