Simon Cun

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Education

University of California Riverside GPA: 3.91/4.00 | Riverside, CA
Bachelor of Science in Computer Science *September 2024 – June 2027*

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

Experience

ACM Forge - Skyflow Software Engineer / Mechanical Engineer February 2025 – Present
University of California, Riverside *Riverside, CA*

- Designed and 3D printed a functional drone chassis using SolidWorks, enabling stable hardware integration.
- Boosted drone stability by calibrating IMU sensor data and resolving flight control bugs in Python, enhancing autonomous navigation.
- Led integration of camera module, motor system, and embedded software to support autonomous flight capability.

ACM Spark - Web Developer / Designer December 2024 – Present
University of California, Riverside *Riverside, CA*

- Transformed Figma wireframes into a fully functional and responsive website, implementing all UI components to match original designs.
- Collaborated in weekly team meetings to align design goals, share progress, and resolve frontend development challenges.

Projects

Cutie Mood | *React Native, Expo, Gemini API, Next.js, PostgreSQL* | **GitHub** August 2025

- 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** February 2025 – Present

- 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%**.

CSE-ULA Website | *Next.js, React, Tailwind CSS* | **GitHub** January 2025 – Present

- Developing UCR's official CSE Undergraduate Learning Assistant website by building responsive React components and Tailwind layouts, improving accessibility for **1,000+ CS undergraduates**.
- Refactored shared UI components and consolidated Tailwind utility classes, reducing redundant code by **25%** and increasing maintainability.

Upcycle To Overcome | *HTML, CSS, JavaScript* | **GitHub** January 2025

- 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.

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
Tools: Git, GitHub, Figma, OpenAI, Linux