Helena Sun

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EDUCATION

University of California, Irvine   Jun 2026
B.S. in Computer Science, Minor in Mathematics
Dean's Honor List (9), SAGE Scholar, GPA: 3.98

Google Technical Support Fundamentals Certificate   Feb 2023

EXPERIENCE/WORK

Software (Site Reliability) Engineering Intern   Jun 2025 – Sep, 2025
Google   *Kirkland, WA*
- Created new service for Google Cloud Platform: BigQuery that uses in-house capacity management tool to actuate the turn up of services, automate workflows, and reduce SWE hours from manual toil
- Demonstrated initiative to professional growth and cultural integration by hosting informational interviews with 10+ Googlers and participating in social and self-growth events

Student Administrator   Feb 2023 – Present
Center for Embedded Cyber-physical Systems, UC Irvine   *Irvine, CA*
- Ensure smooth research progress by purchasing material and equipment for up to $10,000 a month
- Serve as liaison between the financial department, faculty, and graduate students
- Review >100 conference papers and articles by faculty and students quarterly

Resident Advisor   Sep 2023 – Jun, 2024
Student Housing, UC Irvine   *Irvine, CA*
- Advised 128 UCI student residents daily 24/7 to ensure a fun learning environment
- Organized and led biweekly community events, fostering a stronger and responsible student network
- Acted decisively as a first responder during emergencies, ensuring student safety through crisis management

PROJECTS

CS152 Matrix Multiplication Accelerator (C++)
- Optimized matrix multiplication of size 2048+ by hundreds-fold
- Integrated techniques such as AVX, multithreading, blocking, transposition, and cache obliviousness

CS178 Emotion Classifier (Python)
- Utilized principal component analysis and t-SNE to perform dimensionality reduction to analyze image data
- Categorized >500 facial images into positive and negative with 0.15 errors using OpenCV scale-invariant feature transform and Kera convolutional neural networks, in collaboration with 2 teammates

LA Hacks Gem Journal (Python)
- Led a 4 person team to implement a GUI journaling program that integrates Google's Gemini AI for a personalized chatbot, completed under 48 hours

SKILLS/ACTIVITIES

Programming: Python, C/C++, Go, Assembly, Verilog, Java, SQL, HTML/CSS, R
Technical Skills: Operating Systems, Object-Oriented Programming, Multiprocessing/multithreading, Data Structures, Machine Learning/AI, Embedded Systems, Algorithm Analysis, Networking and Protocols, Web APIs, Test Oriented Development, Linux, Microsoft Office Suite
Languages: Proficient in Mandarin, Conversational Spanish
Volunteering: Weekly habitat restoration with Project Grow CA @ Newport Back Bay