

Jacob Lin

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EDUCATION

- **Santa Clara University** Santa Clara, CA
Bachelor of Science in Computer Science and Engineering; GPA: 3.82 *Sept. 2022 – June 2026 (expected)*

EXPERIENCE

- **Santa Clara University** Santa Clara, CA
Web Developer Intern *July 2024 - Present*
 - **University Homepage:** Built and launched Santa Clara University's homepage (scu.edu), which receives over 1 million monthly visitors.
 - **Web Component Development:** Developing and maintaining over 100 web components (e.g., accordions, pull quotes, galleries) that enable students and faculty to build custom pages in a CMS environment, utilizing HTML, CSS, and JavaScript.
 - **Digital Strategy:** Collaborating with the University's marketing and communications team and Board of Trustees to develop a digital landscape that promotes and embodies the University's goals and values.

PROJECTS

- **Custom Graphics Engine:** Created a graphics engine in C with no external libraries capable of rendering objects that can be freely rotated about any axis. Leveraged this engine to create 3D and 4D Rubik's Cube simulations that can run in any browser. [Link to Demo](#) 
 - **Technologies Used:** C, WebAssembly
- **Crochet Counter App:** Developed a native iOS mobile app that serves as a crocheting companion, featuring a library of patterns and a stitch tracker. Used Figma for designing and Swift in Xcode for app development. [Link to Demo](#) 
 - **Technologies Used:** Swift, Xcode, Figma
- **Running and Music Data Analysis:** Utilized Python to analyze the impact of music on my running pace, integrating data from Strava and Spotify. Published a blog post detailing the process here: [Link to Blog Post](#) 
 - **Technologies Used:** Python

PROGRAMMING SKILLS

- **Languages:** Python, Java, C, C++, Swift, JavaScript **Technologies:** Xcode, git

RELEVANT COURSEWORK

- **Object-Oriented Programming** Santa Clara University
Winter 2024
 - Learned principles of Object-Oriented Programming through C++
- **Data Structures & Algorithms** Santa Clara University
Spring 2023
 - Learned basic data structures and applied them in C language
- **Embedded Systems** Santa Clara University
Fall 2023
 - Learned ARM64 and the fundamentals of computing at a lower level
- **Others:** Discrete Math, Linear Algebra, Calculus II & III, Probability & Statistics, Differential Equations, Electric Circuits, Electronic Circuits I, Logic Design, Cryptography