

Jacob Lin

<https://webpages.scu.edu/ftp/jslin/>

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EDUCATION

- **Lynbrook High School** San Jose, CA
High School Diploma; GPA: 3.9 *Aug. 2018 – June 2022*
- **Santa Clara University** Santa Clara, CA
Bachelor of Science in Computer Science and Engineering; GPA: 3.857 *Sept. 2022 – Present*

PROJECTS

- **Crochet Counter App**: Native mobile app for iOS that acts as a crocheting companion, with a library of patterns and a stitch tracker. Used Figma as a reference when creating the app. Used Swift in Xcode to build the app and Python to import crochet patterns into the app. See the project and development process here: <https://webpages.scu.edu/ftp/jslin/blogs/cc.html>.
 - **Technologies Used**: Swift, Figma, Python
- **Church Room Checker**: Commissioned to create a dynamic and user-friendly web application designed to streamline room management for the largest Chinese-speaking church in North America (River of Life Christian Church), facilitating efficient monitoring and coordination of over 30 rooms within the church premises by connecting with the church's software's API
 - **Technologies Used**: HTML, CSS, JavaScript
- **Running and Music Data Analysis**: Did statistical analysis using Python and Excel to see if the music I listen to while running affects my running pace. Took apart data from Strava and Spotify and analyzed it. Wrote an article about it here: <https://webpages.scu.edu/ftp/jslin/blogs/blog1.html>.
 - **Technologies Used**: Python, Excel
- **New York Times Crossword Heatmaps**: Gathered 20 years worth of crossword puzzles and created a heatmap for each day of the week. Used Python to create the gradient and draw the heatmaps. You can see the heatmaps and development process here: <https://webpages.scu.edu/ftp/jslin/blogs/nytxw.html>.
 - **Technologies Used**: Python

PROGRAMMING SKILLS

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

RELEVANT COURSEWORK

- **Object-Oriented Programming** Santa Clara University
Winter 2024
 - Learning 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, Physics, Probability & Statistics, Differential Equations, Electric Circuits, Logic Design