

Hilary Le

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EDUCATION

Santa Clara University

Computer Science and Engineering (B.S.)

Santa Clara, California

Expected Graduation: June 2026

GPA: 4.0

- **Honors:** University Honors Program, Provost Scholar
- **Relevant Coursework:** Embedded Systems, Discrete Mathematics, Linear Algebra, Differential Equations, Calculus and Analytic Geometry IV, Probability and Statistics, OOP and Advanced Data Structures.
- **Planned Coursework:** Electric Circuits I, Database Systems, Theory of Algorithms, Computer Networks.

EXPERIENCE

SCU Human-Computer Interaction Research Lab

Digital Disconnection Project - Researcher & Project Manager

Santa Clara, California

June 2023 - Present

- Leverage prior research to design and execute large-scale survey targeting 1000+ United States internet users using Qualtrics; prepare and lead internal and external piloting of study with 30+ users with Prolific.
- Employ Python and Github to analyze and interpret survey data to compose publication-ready results.
- Define project scope and manage project timeline and roadmap using Scrum and Agile methodologies and Trello boards and documentation, resulting in on-time deliveries and optimized team performance.

Storytelling Senior Design Project - Researcher

April 2023 - June 2023

- Collaborated with a team of 4 designers to develop compelling and engaging tours of buildings at SCU.
- Operated a Matterport camera and associated technology to capture detailed, large-scale 3D scans of 5 locations and produce accurate and immersive virtual tours and presentations.
- Acquired constructive written feedback for team members to eliminate post-production defects.

Engage STEM San Jose/Morgan Hill

Founder, President, and Chapter Director

Morgan Hill, California

October 2020 - July 2023

- Initiated and built a chapter of a nonprofit organization, defining demographic needs, crafting diverse and interactive curricula, and forming partnerships with 20+ schools to provide classes/tutoring to 1000+ students.
- Spearheaded the development of a website dedicated to hosting forms and sign-up processes, leading to a 500% surge in registrations and streamlining database collection and analytics using Excel.
- Monitored programs and identified issues within chapter, such as communication gaps and volunteer coordination challenges; orchestrated strategic cross-functional coordination among students, parents, and a team of over 350 volunteers to reduce turnaround time by 400%.

PROJECTS

HotSpots (Inrix Hacks 2023 Honorable Mention) | React.JS & Tailwind CSS

Front-End Developer

Santa Clara, California

November 2023

- Integrated INRIX's traffic data to aid in strategic decision-making for optimal business locations.
- Developed dynamic and interactive user interfaces using React.JS and Tailwind CSS.
- Integrated Google Maps API for virtual tours, incorporated INRIX Drive Time Polygon API for visualizing areas of interest, and combined real-time real estate data from Finiti for comprehensive analysis.

SCU Bathroom Reviews | HTML, CSS, & JavaScript

Lead Developer

Santa Clara, California

June 2023 - August 2023

- Revamped storyboards, user flows, and sitemaps to improve user interaction and meet user needs; researched and implemented a new user-friendly interface, resulting in a 20% increase in user engagement.
- Conducted 100+ usability tests on each independent type of page on the site to identify bugs and incorporated responsive design techniques to adapt to different screens, improving functionality and efficiency by 25%.

A College Dataset | C & Vi/Vim

Lead Developer

Santa Clara, California

May 2023 - June 2023

- Developed optimized data structures and implemented search, insertion, deletion, and data analysis functionalities for a student records management system with over 3000 students.
- Utilized arrays, linked lists, and hash tables and algorithms to address applications, reducing run times by 50%.

SKILLS & INTERESTS

Coding: Java, Python, C/C++, HTML/CSS, x86 Assembly, React.JS, Tailwind CSS

Skills: Project Planning, Project Management, Project Design, Marketing/Outreach, Research, Team Management, Time Management, Software Development Cycle, Microsoft Office, Google Suite, Data, Scrum/Agile Methods.