Hilary Le

Morgan Hill, CA | (408) 607-1553 | hilaryle04@gmail.com | linkedin.com/in/hilaryle

EDUCATION

Santa Clara University — **Santa Clara, California**
Computer Science & Engineering (B.S.) — *Expected Graduation: June 2026*

- **Honors:** University Honors Program, Provost Scholar — GPA: 4.0
- **Relevant Coursework:** Embedded Systems, Discrete Mathematics, Linear Algebra, Differential Equations, Calculus & Analytic Geometry IV, Probability & Statistics, OOP & Advanced Data Structures; (Planned) Logic Design, Electric Circuits I, Database Systems, Theory of Algorithms, Computer Networks.

EXPERIENCE

SCU Human-Computer Interaction Research Lab
Digital Disconnection - Researcher & Project Manager — *June 2023 - Present*

- Leveraged prior research to design & execute a large-scale survey targeting 1000+ internet users across the United States using Qualtrics; prepared & led internal & external study piloting with 30+ users with Prolific.
- Employ Python & Github to analyze & interpret survey data to compose publication-ready results.
- Defined project scope & managed project timeline & roadmap using Scrum & Agile methodologies & Trello boards & documentation, resulting in on-time deliveries & high-quality outcomes.

Storytelling Senior Design Project - Researcher — *April 2023 - June 2023*

- Collaborated with a team of 4 designers in developing compelling & engaging tours of buildings at SCU.
- Operated a Matterport camera & associated technology to capture detailed, large-scale 3D scans of 5 locations & produce accurate & immersive virtual tours & presentations.
- Acquired constructive written feedback to team members to eliminate 30% of post-production defects.

Engage STEM San Jose/Morgan Hill — *October 2020 - July 2023*
Founder, President, & Chapter Director

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

PROJECTS

HotSpots (Inrix Hacks 2023 Honorable Mention) | React.JS & Tailwind CSS — *November 2023*
Front-End Developer

- Integrates 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 — *June 2023 - August 2023*
Lead Developer

- Revamped storyboards, user flows, & sitemaps to improve user interaction and meet user needs; researched & 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 & incorporated responsive design techniques to adapt to different screens, improving functionality & efficiency by 25%.

A College Dataset | C & Vi/Vim — *May 2023 - June 2023*
Lead Developer

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

SKILLS & INTERESTS

Coding Languages: 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.