SABRINA QUACH

(415) 637-1892 | sabrina.quach@sjsu.edu | https://www.linkedin.com/in/sabrina-quach-sjsu/ | https://sabrinaquach.github.io/

EDUCATION

San Jose State University | December 2025
BS in Computer Engineering; Minor in Interaction Design
Relevant Coursework:
- *Algorithms and Data Structure Design* - Object-oriented data organization and representation as strings, arrays, stacks, queues, dequeues, lists, sets, trees, tables, and graphs. Sorting and searching and algorithm design and performance analysis.
- *Advanced Algorithm Design* - Design and analysis of data structures and algorithms. Advanced tree structures, hashing, searching and sorting. Divide-and-conquer, greedy, and dynamic programming algorithm design techniques.
- *Operating Systems Design* - History, concepts, system calls and structures. Management of major components: processes, memory, input/output and files. Design of system calls and device drivers for hardware dependence. Concepts of kernel and shell, file protection and interactive computation.
- *Software Engineering I* – Software design, software testing, verification, validation, and documentation. Software quality assurance and review techniques, software maintenance, and team-based projects.
- *Human Factors* - Human psychology and physiological characteristics and methods for taking these into account in designs and development of human-machine systems. Current human factor engineering efforts in lab, design process and operational environment.
- *Ergonomics for Design* - Aspects of products affecting human performance, comfort and safety. Emphasis on design of computer interfaces, automobiles and furniture. Topics include visual displays, anthropometry, seating design and safety design.

TECHNICAL SKILLS

- *Front-End:* HTML, CSS, Verilog
- *Back-End:* C, C++
- *Other: Docker, GitHub, Git, Maria DB,* Excel, PowerPoint, Word, Adobe Illustrator, Adobe InDesign, Adobe Photoshop, Research

Languages: Cantonese (Elementary Fluency)

WORK EXPERIENCE

Student Democracy Program | *Election Poll Worker* | On-site   October 2020 - November 2020
- Assisted voters of all demographics with voting.
- Ballot check-in and drop-off.
- Answering any concerns with voting.

Tea Percent | *Barista/Trainer* | On-site   April 2023 - July 2023
- Trained new employees to ensure an efficient working environment.
- Improved customer satisfaction by resolving customer needs and concerns.

PROJECTS

Personal Website | *HTML/CSS*   June 2024 - Present
- Website that displays various projects.

Government Website Redesign | *HTML/CSS, JavaScript* | Collaboration   February 2024 – May 2024
- Collaborated with a team to redesign a government website, integrating Git for version control.

Taku Satoh Booklet | *Adobe InDesign*   November 2023 - December 2023
- Created a booklet showcasing the designer's work, along with my own interpretation of their designs.

Nest Learning Thermostat Usability Report | *Research*   January 2024 - May 2024
- Conducted an analysis of Nest's Learning Thermostat using usability principles to improve the user experience, proving recommendations.