

## SABRINA QUACH

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### EDUCATION

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**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

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- *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

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**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

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**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.