

SABRINA QUACH

CONTACT

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<https://sabrinaquach.github.io/>

RELEVANT CLASSES

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.

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.

EXPERIENCE

Student Democracy Program, San Mateo — Election Poll Worker

OCTOBER 2020 - NOVEMBER 2020

Assisted voters of all demographics with voting:

- Ballot check-in and drop-off
- Answering any concerns with voting

Tea Percent, Santa Clara — Barista/Trainer

APRIL 2023 - JULY 2023

- Trained new employees to ensure an efficient working environment
- Improved customer satisfaction by resolving customer needs and concerns

TECHNICAL SKILLS

Front-End: HTML, CSS, Verilog

Back-End: C, C++

Other: Docker, GitHub, Git, Maria DB

PROJECTS

Personal Website

<https://github.com/sabrinaquach/sabrinaquach.github.io>

Taku Satoh Booklet

Booklet about designer Taku Satoh designed to encapsulate the artist as a whole.

Product Usability Report

Usability analysis on Nest's Learning Thermostat using usability principles.

EDUCATION

San Jose State University,
San Jose — *Bachelor of Science*

AUGUST 2021 - DECEMBER 2025

Computer Engineering Major

Interaction Design Minor

LANGUAGES

English

Elementary Cantonese