

MELANIE WONG

(510) 209-7390 • mwong775@gmail.com • <https://github.com/mwong775>
<https://linkedin.com/in/mwong775> • <https://mwong775.github.io>

EDUCATION

University of California, Santa Cruz, CA

- Pursuing B.S. in Computer Science
- Expected Graduation: June 2021

- GPA: 3.8/4.0
- Dean's Honors

Relevant Coursework:

- Algorithms & Abstract Data Types
- Computer Architecture
- Web Applications
- Data Structures & Programming
- Computer Networks
- Principles of Computer System Design
- Intro to Software Engineering
- Graduate Seminar on Networks
- Coding for Social Good

WORK EXPERIENCE

Computation Intern – Lawrence Livermore National Laboratory

June – Sept 2019

- Developed and redesigned the in-house web application for tracking laser & facility maintenance
- Created RESTful web services in Java, and used Axios service to issue HTTP requests
- Implemented enhanced data sorting & filtering with UI redesign using React, TypeScript, and MobX
- Utilized automated builds and deployment on Atlassian Bamboo

Undergraduate Research Assistant – Tech4Good Lab, UCSC

March 2019 – Present

- Performing usability studies and design iterations using Angular for Causeway, a learning platform that allows users to learn web development while creating website components for nonprofit organizations
- Investigated future product development by conducting extensive interviews with industry professionals

Mozilla Glass Room Ingenious

October – November 2019

- Partnered with Tactical Tech and Mozilla Firefox to host The Glass Room exhibition in San Francisco
- Raised overall awareness on data privacy & digital security issues through facilitating workshops

Academic, Athletic, and Music Instructor – Leaderboard Afterschool

June 2016 – Aug 2017

- Taught piano lessons & classes in basic programming and Lego robotics
- Organized team sports for students to encourage development of athletic and social abilities

PROJECTS

LiveColor

- Building an Android application that allows users to pick colors from the camera or uploaded images
- Displays RGB, HEX, and HSV values of colors based on location of tap on the image

Production Network Simulation

- Developed a simulation of a multi-level production network using Mininet topology & Python
- Implemented firewalls and routing between subnets using switches and a POX controller

Personal Website

- Developed a responsive web application featuring projects, experiences, and travel photos in a vibrant UI
- Applied technologies such as React and GitHub Pages to facilitate deployment

JPMorgan Chase & Co. Code for Good (2nd Place)

- Created a mobile web application to track & analyze volunteer activities for the nonprofit, Green City Force
- Utilized React, Node JS, SQLite, and Bootstrap to incorporate user accounts and rewards systems

Shopping Site

- Developed a website for product orders & reviews, star ratings, and a shopping cart to simulate online purchasing
- Used Vue JS, SQLite, and Web2py in Python to display average ratings, and integrate editable product reviews

TECHNICAL SKILLS

- Programming Languages: Java, C/C++, JavaScript/TypeScript, HTML/CSS, Python
- Tools: Linux/Unix & Windows, Git (GitHub, Bitbucket, GitLab), React, Node JS, Android Studio, Wireshark
- Languages: English, Cantonese, and Mandarin

ACTIVITIES & ACCOMPLISHMENTS

2019 Goldman Sachs Engineering Essentials Fellow

May 2019

- Five-day program involving industry insights and intensive training in full-stack development
- Created a stock visualization application using React, Jersey RESTful web services, JSON, and Maven

Rewriting the Code Fellow

June 2019 – Present

- Year-long program offering career coaching, industry exploration, networking, and internship opportunities to college women in tech

NCAA Track & Field Athlete – Sprinter & Hurdler

Sept 2017 – Present