MELANIE WONG

mwong775@gmail.com (510) 209-7390 in linkedin.com/in/mwong775 github.com/mwong775 in mwong775.github.io

EDUCATION

University of California, Santa Cruz

M.S. Computer Science and Engineering

Expected June 2021

• **B.S. Computer Science**, graduated in 3 years with Highest Honors, Cum Laude, GPA: 3.83/4.00

June 2020

- o Graduate Coursework (during undergraduate): Network Security, Seminar on Networks
- Undergraduate Coursework: Algorithms & Data Structures, Software Engineering, Computer Security, Machine Learning, Distributed Systems, Coding for Social Good

WORK EXPERIENCE

Global Technology Summer Analyst | Bank of America | New York, NY (remote)

June 2020 - Present

- Scraped over 30+ financial documents to build an NLP language model (corpus) using Python
- Built a document search engine with similarity scoring and keyword highlighting

Undergraduate Researcher | UC Santa Cruz Engineering

Sep. 2019 - Present

- Proposed, designed, and developing web security service using compact data structures in C++
- Analyzing collected data using Python libraries to evaluate performance and memory efficiency

Undergraduate Research Lead | UC Santa Cruz Tech4Good Lab

Mar. 2019 - Present

- Leading web development team to build and scale platforms for supporting our communities
- Developing applications using Angular, NgRx, and Firebase from Figma prototypes

Economics Lab Lead Programmer | UC Santa Cruz LEEPS Lab

May 2020 – Present

- Designing and developing software to support research in an experimental economics lab
- Implementing web platforms for conducting experiments using oTree, Python and Polymer.js

Computation Intern | Lawrence Livermore National Laboratory | Livermore, CA

June - Sep. 2019

- Designed and developed a web application using React for tracking laser facility maintenance
- Implemented REST API in Java, API calls using Axios, and redesigned UI for improved usability

PROJECTS

Better Together | VMware CodeHouse Winner | Palo Alto, CA (remote)

Aug. 2020

- One of 20 finalists selected from across the US for a 48-hour hackathon targeting diversity & inclusion and COVID-19
- A community-driven app with job search and chatbot to support local businesses and communities during the pandemic
- Used React.js for front-end, Flask for microservices back-end, and deployed using Kubernetes in Docker (kind)
- Voted most creative idea, most technically advanced, and best UI/UX design by all teams

Distributed Key-Value Store | Distributed Systems Final Project

June 2020

Implemented a fault-tolerant key-value store in a team of 4 using Python, Flask, and Docker

Daily Messages

Jan. 2020

• Automated daily SMS using Java, Microsoft Azure Functions, and Twilio API to receive customized weather reports

LiveColor | Software Engineering Final Project

Dec. 2019

• Built an Android application in Java that allows picking, editing, and saving colors from captured images

JPMorgan Chase & Co. Code for Good | 2nd Place | Jersey City, NJ

Oct. 2018

Created a mobile web application using React to track and gamify volunteering for the nonprofit, Green City Force

TECHNICAL SKILLS

- Programming: Experience with Java, C++, Python, JavaScript, TypeScript, HTML, CSS, SCSS; Familiar with Go, SQL
- Frameworks: React, Angular, Vue, Polymer.js, Express, Flask
- Technologies: Linux/Unix, Git, Node.js, Docker, Kubernetes, Google Cloud Platform, AWS
- Languages: English, Cantonese, and Mandarin

ACTIVITIES & AWARDS

Belonging Research Fellowship Award | UCSC Institute of Social Transformation

May 2020 - Present

• Lead programmer to develop software for research in LEEPS experimental economics lab

Goldman Sachs Engineering Essentials Fellow | New York | one of 73 students selected out of 1500+ applicants

May 2019

Created a stock visualization application using React, Jersey RESTful web services, JSON, and Maven

Rewriting the Code Fellow

June 2019 – Present

NCAA Track & Field Student-Athlete | Two-time National Junior Olympian