

MELANIE WONG

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EDUCATION

University of California, Santa Cruz

- **B.S. in Computer Science**, expected June 2020. GPA: 3.81
- **Coursework**: Algorithms & Data Structures; Software Engineering; Computer Security; Web Applications
- **Graduate Coursework**: Network Security, Seminar on Networks

EXPERIENCE

Computation Intern – Lawrence Livermore National Laboratory

June – September 2019

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

Undergraduate Researcher – Baskin School of Engineering, UC Santa Cruz

September 2019 – Present

- Applying space-efficient cuckoo filter cascades to store TLS/SSL certificate revocations
- Investigating performance & security benefits of implementation in revocation checks by browsers

Undergraduate Research Assistant – Tech4Good Lab, UC Santa Cruz

March 2019 – Present

- Building and defining structures for a platform focused on team building and collaboration using Angular, RxJS, and Firebase
- Conducted usability studies for Causeway, a platform that allows users to learn web development and simultaneously develop components for nonprofit organizations

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

PROJECTS

Multi-threaded HTTP Server

- Designed and developed a simple server in C/C++ to handle simultaneous HTTP requests
- Implemented request logging, including header information and data in hex

Daily Messages

- Daily SMS using the Twilio API to receive today's weather and temperature
- Automated using Azure Functions with a TimerTrigger to run the Java code every morning

GIFinder

- Created a web application to search for GIFs using React and the Giphy API
- Implemented an animated list of trending GIFs, and a search bar to find other GIFs

LiveColor

- Built an Android application that allows picking, editing, and saving colors from the camera or uploaded images
- Implemented feature of displaying HEX values and color names using an API, based on the location of tap on the image

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

TECHNICAL SKILLS

- Programming Languages: Java, C/C++, JavaScript/TypeScript, HTML/CSS, Python
- Tools: Linux, Windows, Git, React, Angular, Node JS, Android Studio, Docker, Wireshark
- Languages: English, Cantonese, and Mandarin

ACTIVITIES

2019 Goldman Sachs Engineering Essentials Fellow

May 2019

- Selected to attend a five-day program involving industry insights and full-stack development training
- Created a stock visualization application using React, Jersey RESTful web services, JSON, and Maven

Rewriting the Code Fellow

June 2019 – Present

- Selected for a 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 – Jan 2020