

# MELANIE WONG

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## 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
- Intro to Software Engineering
- Principles of Computer System Design
- Computer Networks
- Data Wrangling & Web Scraping
- Coding for Social Good

## WORK EXPERIENCE

### *Computation Intern – Lawrence Livermore National Laboratory, National Ignition Facility*

June – September 2019

- Refactored tech stack for LoCoS, an in-house web application for tracking laser & facility maintenance
- Created RESTful web services in Java using Jersey framework to replace Apache Struts
- Used React JS, MobX, and TypeScript to redesign user interface with advanced data sorting & filtering
- Utilized automated builds and deployment on Atlassian Bamboo with scheduling and code changes

### *Undergraduate Research Assistant – Tech4Good Lab, UCSC*

March 2019 – Present

- Performing usability tests and design iterations for Causeway, a learning platform that teaches coding
- Completed qualitative analyses for potential products to support nontraditional pathways to tech careers

### *Academic, Athletic, and Music Instructor – Leaderboard Afterschool & Summer Program*

June 2016 – August 2017

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

## PROJECTS

### *JPMorgan Chase & Co. Code for Good (2<sup>nd</sup> Place)*

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

### *Personal Website*

- Developed a responsive web application featuring my projects, experiences, and travel photos in a vibrant UI
- Utilized React JS and GitHub Pages to facilitate deployment and embedding a PDF viewer

### *Kappa Poll – TwitchCon Hackathon*

- Built a Twitch Extension that allows streamers to create polls for viewers to encourage interaction and engagement
- Uses React JS, Node JS, and PostgreSQL for votes to save and dynamically update on a pie chart in the extension

### *Shopping Site*

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

### *Stock Visualization Application – GS Engineering Essentials*

- Created a web application that displays stock charts based on stock ticker symbol and date interval
- Applied technologies such as React JS, Jersey RESTful web services in Java, JSON, and Maven

## TECHNICAL SKILLS

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

## ACTIVITIES & ACCOMPLISHMENTS

### *2019 Engineering Essentials Fellow – Goldman Sachs*

May 2019

- One of 73 students (out of 1500 applicants) selected to attend
- Five-day program involving industry insights and intensive training in full-stack development

### *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*

February 2014 – Present

- Two-time National Junior Olympian; Team Captain & MVP (2016, 2017)
- Devotes up to 25 hours per week for training, competition, travel, and meetings

References Available Upon Request