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

Computing 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
- Redesigned user interface with advanced data sorting & filtering using React JS, MobX, and TypeScript
- Utilized scheduled builds and deployment on Atlassian Bamboo

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 (2nd Place)

- Created a mobile web application that tracks & gamifies volunteer activities for the nonprofit Green City Force
- 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 so votes are saved and dynamically updated on a pie chart in the UI

Shopping Site

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

Stock Visualization Application – GS Engineering Essentials

- Created a web application that displays stock charts based on inputted 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, Vue JS
- 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