Jessalyn Wang

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SKILLS: Python | C++ | HTML | SCSS | JavaScript | PyTorch | Pandas | AngularJS | React | NgRx | RxJS | Git | Agile

EDUCATION

University of California, San Diego
Sept. 2021 - Jun. 2023

- Incoming transfer student
- Affiliations: Senior Web Engineer for NeuroTech at UCSD

University of California, Santa Cruz
Sept. 2019 - Jun. 2021

- Major: Computer Science, BS | GPA: 3.98/4.00
- Honors: Dean's List (all quarters)
- Relevant coursework: Data Structures and Algorithms, Vector Calculus, Linear Algebra, Embedded Systems, Computational Models

EXPERIENCE

Software Engineering Intern, Maxar Technologies
Jun. 2021 - Present

- Developing UX/UI features in DeepCore, a geospatial service for computer vision and pattern analysis technology using React.js, deck.gl, react-map-gl, and TypeScript
- Collaborating with 2 other interns to propose, design, and develop both the front-end and back-end of a new feature integrating custom GeoJSON layers for data visualization and analysis
- Implementing unit tests to reach for 100% code coverage using Jest
- Creating API endpoints and database tables in Java using Spring Boot

Web Development Intern, TAP Series
Feb. 2021 - May 2021

- Developed a website using HTML, PHP7, and SQL with data hosted on an Microsoft SQL Server
- Automated data collection by creating modular forms and surveys for course and company feedback
- Wrote scripts in Python to calculate score reliability on courses using Cronbach's Alpha
- Implemented visual analytics for various surveys and course assessments

Undergraduate Research Lead, Tech4Good Lab
Sept. 2020 - Jun. 2021

- Lead a team of 8 in developing UI components
- Reviewed pull requests, assisted members through component development, and introduced them to git and practices such as continuous integration to develop a total of 43 components over 20 weeks
- Individually programmed components in an AngularJS framework using HTML, SCSS, and TypeScript
- Implemented maintainability, performance, and logging on the code base to standardize coding practices, improve speed and memory usage, and aid collection of data for research
- Created containers with NgRx, RxJS, and TypeScript for supplying data to components and tracking state

Machine Learning Team Lead, NeuroTechSC
Aug. 2020 - Jun. 2021

- Directed a team of 5 in the creation of machine learning models for the classification of subvocalized speech
- Managed the team in an Agile environment by establishing deadlines, assigning tasks, and planning sprints
- Assisted the data team by using Python to make visualizations of collected data and making recommendations on data pipeline tuning based on model performance

PROJECTS

Boolepathy

- *Uses: Python, PyTorch, sci-kit learn, Pandas, NumPy, OpenBCI, React, Flask*
- Implements hardware from an OpenBCI kit to detect EMG signals from subvocalized speech and classify the signals as words
- Won 1st place in the U.S. and 5th globally in the 2020 NeuroTechX Student Clubs Competition
- Developed a model using Convolutional Neural Networks that successfully classifies to 90% accuracy