Washington Zhao

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Education

University of Southern California

Class of 2022

B.S Computer Science

GPA: 3.58/4.0

Relevant Coursework:

Computer Science: Data Structures and Object-Oriented Programming, Introduction to Algorithms and Theory of Computing, Discrete Methods in Computer Science, Principles of Software Development

Technical Skills

Highly Proficient: C++, Java, Python, JavaScript, HTML, XHTML, CSS, MySQL, Pandas, D3.js, Dash/Plotly, **Proficient**: MERN stack (Mongo, Express.js, ReactJS, Node), Jekyll, Flask, Tailwind, Bootstrap, Git, Tensorflow

Experience

Software Engineering Intern

June 2020 – Present

NASA Jet Propulsion Laboratory

Pasadena, CA

- Developed a full-stack internal Node-based application within NASA's Mission Assurance Directorate to be used for multiple NASA teams' engineering processes tracking
- Revised upon existing codebase frameworks to improve development time and application scalability

Research Assistant
USC Information Sciences Institute

Jan 2020 – May 2020 Marina del Rey, CA

• Developed legal-domain adapted **low-resource machine learning model** utilizing **transfer learning** to assist refugees at the Southern border speaking niche languages

Course Producer/Teaching Assistant

Aug 2019 - May 2020

USC Viterbi School of Engineering

Los Angeles, CA

- Held weekly office hours to aid students enrolled in Discrete Methods in Computer Science course
- Co-led discussion section of 70 students on course material (graphs, trees, algorithm complexity etc.)

Advanced Analytics Intern

May - Aug 2019

The Raytheon Company

Andover, MA

- Leveraged data visualization libraries such as D3.js, Dash/Plotly, and Pandas to display material flow status for production management analytics on an interactive web application
- Reduced company's sunk costs resulting from asset misallocation and saved up to 1 hour of time per employee through updating internal database structure in SQL and refining the front-end asset allocation dashboard

Proiects

Let's Talk About Corona

https://www.coronastinks.com

- Led 5-person development team using **MERN-stack** to create a website compiling nationwide Coronavirus mutual aid resources
- Curated internal development best-practices and organized meetings regarding site development

Spark SC Home Page

https://www.sparksc.org

- Worked on team to develop organization website using Jekyll and Node
- Improved upon modularity of existing codebase and implemented new frameworks to simplify future site updates

HealthClear

- A progressive web app allowing users to compare costs of medical facilities in their area for specified procedures
- Leveraged RESTful API using Flask, Python HTTP scraping libraries, and various Google APIs

Involvement

Al Researcher

Executive Lead/Web Mechanic

Jan 2020 – Present

Spark SC

- Developed & maintained all websites regarding the organization and initiatives such as https://accelerator.sparksc.org; worked closely with graphics team to develop quality UI/UX practices
- Led Startup Career Fair, a fully student-run career fair inviting over 50 local startups to network with students

USC Center for AI in Society Student Branch (CAIS++)

Aug 2019 – Present

 Work closely with UCSD Kawasaki Disease Research Center to develop image recognition model to help prevent misdiagnosis of Kawasaki Disease, the leading cause of acquired heart disease in children