Washington Zhao

washingz@usc.edu | +1 (301) 758-5265 | washingtonzhao.com | linkedin.com/in/washingtonzhao | github.com/washingtonzhao

Education

University of Southern California Class of 2022
B.S Computer Science, Economics/Mathematics GPA: 3.56/4.0

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, Pandas, D3.js, Dash/Plotly, Tableau, HTML, CSS
Proficient: JavaScript, ReactJS, JQuery, Node.JS, Flask, Git, SQL, Tensorflow, Alteryx, XCode, JSON, Latex, MATLAB

Experience

Incoming Software Engineering Intern Feb 2020 – Present
NASA Jet Propulsion Laboratory Pasadena, CA

Research Assistant Jan 2020 – Present
USC Information Sciences Institute Marina del Rey, CA
- Develop domain adapted **low-resource machine learning model** utilizing **transfer learning** to improve refugee asylum outcomes

Course Producer/Teaching Assistant Aug 2019 – Present
USC Viterbi School of Engineering Los Angeles, CA
- Hold weekly office hours to aid students enrolled in Discrete Methods in Computer Science course
- Co-lead discussion section of 70 students and lecture on course material

Data Science 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 within the Advanced Analytics Team
- Worked on cross-continental team to diagnose supply chain inefficiencies in Poland Patriot Program
- Utilized **SQL** for database management; refined company asset allocation dashboard using employee data
- Saved company up to 1 hour in time per employee in allocating needed assets; reduced sunk cost resulting from asset misallocation

Projects

Coterie
- Mobile android app providing a social media platform for community-building and building campus connections
- Utilized **Android Studio** and **Java callbacks** to build UI/UX, as well as **Firebase** for backend data storage

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**

CoronaStinks https://www.coronastinks.com
- Website to provide needed resources for students displaced by the 2019 novel Coronavirus; singlehandedly built first full-stack iteration of site using **jQuery** and **D3.js**; currently leveraging **MERN stack** to further site functionality

Involvement

Board Member Jan 2020 – Present
Spark SC (https://www.sparksc.org)
- Work on twice the typical amount of initiatives bolstering entrepreneurial spirit in the local LA community
- Lead curriculum for Project Launch—a free-of-cost program teaching local underrepresented minority high schoolers technology, entrepreneurship, and design skills
- Singlehandedly secure partnership with sponsor companies for 1000 Pitches, a student-run pitch competition taking in over 1000 student business pitches annually

AI Researcher Aug 2019 – Present
USC Center for AI in Society Student Branch (CAIS++)
- 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 in the US