

Washington Zhao

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Education

University of Southern California

B.S Computer Science, Economics/Mathematics

Class of 2022

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, Flask, Git, SQL, Tensorflow, Alteryx, XCode, JSON, Latex, MATLAB

Experience

Incoming Software Engineering Intern

NASA Jet Propulsion Laboratory

Feb 2020 – Present

Pasadena, CA

Research Assistant

USC Information Sciences Institute

Jan 2020 – Present

Marina del Rey, CA

- Develop domain adapted **low-resource machine learning model** utilizing **transfer learning** to improve refugee asylum outcomes

Course Producer/Teaching Assistant

USC Viterbi School of Engineering

Aug 2019 – Present

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

The Raytheon Company

May – Aug 2019

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**

Multi-threaded Hangman Game

- A terminal based, multi-threaded hangman game build with **Java** utilizing **locks and conditions**, **synchronization**, and **sockets** to allow multiple users to create and join games of Hangman concurrently

Involvement

Board Member

Spark SC (<https://www.sparksc.org>)

Jan 2020 – Present

- 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

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 in the US