

# 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

**Mathematics:** Calculus 3 for Engineers and Scientists, Linear Algebra and Differential Equations, Probability Theory

## Technical Skills

**Highly Proficient:** C++, Java, Python, Pandas, D3.js, Dash/Plotly, Tableau

**Proficient:** JavaScript, ReactJS, Flask, HTML, CSS, Git, SQL, Tensorflow, Alteryx, XCode, JSON, Latex, MATLAB

## Experience

### Research Assistant

USC Information Sciences Institute

Jan 2020 – Present

Marina del Rey, CA

### 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
- Assist professor in producing daily assignments to improve course quality

### Computer Science Tutor

The Coding School

Sept – Dec 2019

Los Angeles, CA

- Taught 35 middle school students **JavaScript** principles and animation tools
- Developed weekly course curriculum geared towards first-time programmers

### 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

### 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
- Learn common tools in machine learning such as **neural networks**, **regression modeling**, and **GANs**

### Team Member

USC Ultimate Frisbee Team

Aug 2018 – Present

- Compete in national tournaments within top-20 nationally ranked college team, honing teamwork and communication skills.
- Volunteer in local underrepresented communities bringing awareness to sport of Ultimate.