

# Washington Zhao

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## Education

**University of Southern California**

B.S Computer Science

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

**Other:** Advanced Writing- Communication for Engineers, Fundamentals of MATLAB, AP Physics C

## Technical Skills

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

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

## Experience

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

### **Computer Science Tutor**

Sept – Dec 2019

The Coding School

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**

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**

### **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**

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

### **Team Member**

Aug 2018 – Present

USC Ultimate Frisbee Team

- 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.