

SARAH J. ZOU

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EDUCATION

California Institute of Technology Pasadena, California
B.S Electrical Engineering; Computer Science Minor

Class of 2022

WORK EXPERIENCE

Software Intern

06/2020--09/2020

Google, Mountain View, California

- Focus on web development with Java servlet and Google's cloud-based web development solutions.
- Full stack development of a UI for Google SmartHome developer test tool.
- Integrated first party and third party APIs into web applications written.

Aerospace Robotics and Control Laboratory Researcher

01/2019-08/2019

Caltech, Pasadena, California

- Implemented autonomous drone swarm communication: installed required hardware and wrote necessary ROS packages for swarm operations
- Wrote several communication network protocols tailored for different swarm tasks
- Organized communication system to be flexible for future development of LTE radio links

Commercial Project Management Intern

06/2018 - 09/2018

Regeneron Pharmaceuticals, Sleepy Hollow, New York

- Worked across marketing, market research, and competitive intelligence teams to prepare for Dupixent® Asthma launch.
- Communicated with alliance partner Sanofi-Genzyme and external vendors to ensure timely submission and review of critical marketing materials to meet Dupixent® brand launch timelines.
- Supported Dupixent® global markets including brand life cycle management.

ACTIVITIES

- Undergraduate Teaching Assistant for Caltech's CS 1 (Introduction to Computer Science) course
- Caltech IEEE Treasurer
- Caltech Y Rise Tutor
- Varsity Women's Water Polo

HONORS AND AWARDS

Fred and Jean Felberg Summer Undergraduate Research Fellow (2019); Regeneron Science Talent Search Top 300 Scholar (2018); Barry M. Goldwater Scholarship Honorable Mention (2018); Siemens Research Competition Semifinalist (2017); Intel International Science and Engineering Fair Finalist (2017)

RELEVANT COURSEWORK

CS2 – Programming Methods; CS11—C language lab; CS 156b—Learning Systems
EE 44 –Circuits and Systems; EE 10—Digital Logic and Embedded Systems; EE 109– Nano-fabrication Lab
Ma 2 — Differential Equations; Ma 3 — Probability and Statistics

SPECIALIZED SKILLS

- Python, C, C++, Java, JavaScript, HTML, CSS, Bootstrap
- Machine Learning with Python Libraries (Scikit-learn, FBProphet, TensorFlow, Keras)
- Matlab, Mathematica, R, ROS
- Solidworks, ANSYS, Altium Designer, ABEL