

Roger Ji

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EDUCATION

University of California San Diego - B.S. in Computer Science | *La Jolla, CA* Sep 2019 - June 2022

- + Relevant coursework: Intro to Computer Science & Object-Oriented Programming, Discrete Mathematics
- + Planned coursework: Data Structures & Object-Oriented Design, Mathematics for Algorithms & Systems
- + Frederick and Mary Haag Scholarship Recipient, Thurgood Marshall College Honors Program

Henry M. Gunn High School | *Palo Alto, CA*

Aug 2015 - May 2019

- + GPA: 3.98/4.00 (unweighted), 4.52/5.00 (weighted); 1550 SAT, 1500 PSAT, 13 AP Exams
- + USABO Semifinalist, National Merit Finalist, National AP Scholar, National German Exam Silver

EXPERIENCE

fortissimo, Full Stack Developer Intern | *Remote*

Mar 2018 - Sep 2018

- + Led UI design by employing Adobe XD and Photoshop to design 10+ wireframes for early-stage SaaS startup
- + Structured interactive landing and about pages by implementing a ReactJS frontend and Firebase backend
- + Collaborated with other interns in the development of Android app's framework using React Native

Stanford Medicine, Bioinformatics Intern | *Stanford, CA*

July 2016 - Aug 2016

- + Developed Python scripts capable of parsing large FASTQ files and performing relevant sequence alignments
- + Wrote auxiliary modules streamlining the conduct and interpretation of BLAST and its outputs, respectively
- + Monitored genomic pipelines and occasionally performed maintenance upon them with Illumina BaseSpace

SELECTED PROJECTS

Little Free Kindness — A website assembled using Flask, PostgreSQL, SQLAlchemy, and Bootstrap that lets visitors submit kind messages and view random ones submitted by others (idea inspired by Little Free Libraries)

Dailies-Bot — Performs repetitive tasks in Neopets like clicking through dailies, pricing shop items, and snatching up donations. Made with Python and Selenium; a tkinter GUI and more features are in the works

MySet — A downloadable, Java-based remake of the card game Set, complete with hint and anticheat features

ACTIVITIES

PAUSD Zero Robotics Team, Efficiency Cluster | *Palo Alto, CA*

Aug 2018 - May 2019

- + Leveraged Zero Robotics's builtin API to program the most fuel-efficient flight path for a simulated satellite
- + Assisted with calculations for navigating the satellite through obstacles and correctly positioning it for docking

MIT BeaverWorks Summer Institute, CogWorks | *Boston, MA*

July 2017 - Aug 2017

- + Selective program focusing on theory, implementation, and applications of various machine learning models
- + Among others, constructed facial recognition program, small search engine, and k-means clustering algorithm

SKILLS

Languages: Java, Python, HTML, CSS, Javascript, Lisp,

Libraries & Frameworks: Bootstrap, jQuery, ReactJS, Flask, NumPy, Matplotlib, PostgreSQL, Selenium

Miscellaneous: Git/Github, Bash, Vim, Heroku