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
- USA Biology Olympiad Semifinalist, National Merit Finalist, National AP Scholar, Gunn Math Award

EXPERIENCE

fortissimo, Full Stack Developer Intern | *Remote* Mar 2018 - Sep 2018
- Used Adobe XD and Photoshop to design 10+ unique wireframes for early-stage SaaS startup
- Structured flexible, modular landing and about pages by implementing numerous ReactJS components
- Assisted with the development of Android app's framework via React Native

Stanford Medicine, Bioinformatics Intern | *Stanford, CA* July 2016 - Aug 2016
- Developed Python scripts capable of parsing 5GB+ FASTQ files and performing relevant sequence alignments
- Wrote auxiliary modules streamlining the conduct and interpretation of BLAST and its outputs, respectively
- Monitored status of various genomic pipelines and occasionally performed maintenance upon them

SELECTED PROJECTS

Little Free Kindness | Flask, PostgreSQL, SQLAlchemy Aug 2019 - Present
- Lets users submit kind notes and view random ones submitted by others (idea inspired by Little Free Libraries)

Dailies-Bot | Python, Selenium July 2019 - Present
- Performs repetitive tasks in Neopets like clicking through dailies, pricing shop items, and snatching donations
- Currently working on GUI via tkinter, with future plans to integrate more bot features

ACTIVITIES

PAUSD Zero Robotics Team, Efficiency Cluster | *Palo Alto, CA* Aug 2018 - May 2019
- Every year, Zero Robotics teams compete to program the most efficient flight path for simulated satellites
- Leveraged ZR's builtin C++ API for vector/quaternion calculations to determine path of least fuel costs

MIT BeaverWorks Summer Institute, CogWorks | *Boston, MA* July 2017 - Aug 2017
- Selective 4-week program centered around the theory, implementation, and applications of machine learning
- Constructed facial recognition program, simple search engine, and k-means clustering algorithm with NumPy

SKILLS

Languages: Java, Python, HTML, CSS, Javascript, Lisp
Libraries & Frameworks: Bootstrap, jQuery, ReactJS, Flask, NumPy, Matplotlib, PostgreSQL, Selenium
Miscellaneous: Git/Github, Bash, Vim, Heroku