Roger Ji

(408) 219-2284 | roger.ji.32021@gmail.com

rogerji.me | linkedin.com/in/roger-ji | github.com/jiroger

EDUCATION

University of California San Diego - B.S. in Computer Science   Sep 2019 - June 2022

+ Relevant coursework: Computer Science & Object-Oriented Programming, Discrete Mathematics

+ Planned coursework: Advanced Data Structures, Mathematics for Algorithms & Systems, Computer Architecture

+ Frederick and Mary Haag Scholarship Recipient, Thurgood Marshall College Honors Program

Henry M. Gunn High School   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, National German Exam Silver

EXPERIENCE

fortissimo | Full Stack Developer Intern   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 compatible with Firebase backend

+ Collaborated with other interns in the development of Android app's framework using React Native

Stanford Medicine | Bioinformatics Intern   July 2016 - Aug 2016

+ Developed Python scripts capable of parsing large FASTQ files and performing the 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 | Aug 2019 - Present — Website assembled using Flask, PostgreSQL, SQLAlchemy, and Bootstrap allowing visitors to submit kind messages and view random ones submitted by others.

Dailies-Bot | Aug 2019 - Present — Performs repetitive tasks in Neopets like clicking through dailies, pricing shop items, and snatching up donations. Made with Python and Selenium, with a tkinter GUI and more features planned

MySet | July 2019 — A downloadable, Java-based remake of the game Set, complete with hint and anticheat features

ACTIVITIES

PAUSD Zero Robotics Team | Efficiency Cluster   Aug 2018 - May 2019

+ Leveraged Zero Robotics's builtin Java API to program the most fuel-efficient flight path for a simulated satellite

+ Solved angular momentum/linear algebra calculations to better control the satellite's navigation through obstacles

MIT BeaverWorks Summer Institute | CogWorks   July 2017 - Aug 2017

+ Selective program focusing on the theory, mathematics, and NumPy implementation of machine learning models.
+ Constructed facial recognition program, search engine, and k-means clustering algorithm to bolster understanding

SKILLS

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