

Roger Ji

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EDUCATION

University of California San Diego | B.S. Computer Science | GPA: 3.94 (Major: 4.0) 09/2019 – 06/2022

+ **Coursework:** Object-Oriented Programming, Discrete Math, Data Structures, Theory of Computation, Computer Organization/Architecture, Systems Programming, Digital Logic

+ Frederick & Mary Haag Scholar, Triton Robosub, ACM @ UC San Diego, IEEE at UCSD, Provost's Honors

EXPERIENCE

Vonage | Software Engineering Intern 06/2020 – Present

+ Contributed to OpenTok **Node** SDK by prototyping, testing, and providing feedback on features, old and new
+ Constructed internal analytics tool using Puppeteer for collecting stream quality data from servers across the globe
+ Presented at weekly, informal developer talks showcasing novel applications of the OpenTok platform.

Triton Software Engineering | Software Developer 10/2019 – Present

+ Worked on **React Native** app for local nonprofit to support its sustainable housing certification program
+ Implemented navigation stack handling routing between screens, modifying them for compatibility in the process

UCSD Rangmani Lab | Undergraduate Researcher 11/2019 – 05/2020

+ Designed **Python** module for predicting variables from cellular shapes otherwise difficult to experimentally test
+ Performed principal component analysis to introduce vertical symmetry for irregularly-shaped datasets
+ Applied mathematical methods (e.g. Frechet distances) to minimize error when refining parameter estimates

fortissimo | Full Stack Developer Intern 03/2018 – 09/2018

+ Created interactive landing and about pages by means of **React** interface compatible with Firebase backend
+ Collaborated extensively in structuring the Android app's framework using **React Native**
+ Led UI design by employing Adobe XD to design 10+ wireframes for an early-stage SaaS startup

Stanford Medicine | Bioinformatics Intern 06/2016 – 08/2016

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

PROJECTS

Chatty | **Node.js, Express, PostgreSQL** 06/2020

Online chat site that randomly gathers up to 8 people together in a dedicated room for a video conversation.

Little Free Kindness | **Flask, PostgreSQL, SQLAlchemy** 08/2019

Web app facilitating the random exchange of kind, filtered messages between strangers on the Internet.

SKILLS

Languages: Python, Java, C, HTML, CSS, JavaScript, Scheme

Software: Flask, Bootstrap, NumPy, jQuery, React, Node.js, Express, PostgreSQL, Selenium, ROS

Miscellaneous: Git/Github, Bash, Vim, Heroku, Jekyll, Pug, Ubuntu, Unix, LaTeX, ARM, SystemVerilog