

Roger Ji

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EDUCATION

University of California San Diego | B.S. Computer Science | GPA: 3.94 Jun 2022 (expected)
+ **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 Jun 2020 – Present
+ Contributed to OpenTok **Node/JS** SDKs by adding new events emitted by API to increase end user QOL
+ Constructed internal analytics tool using Puppeteer for collecting stream quality data from servers worldwide
+ Presented at weekly, informal developer talks showcasing novel applications of the OpenTok platform

Triton Software Engineering | Software Developer Oct 2019 – Present
+ Worked on **React Native** app for local nonprofit to support its sustainable housing certification program
+ Implemented navigation stack handling routing between screens and resolved resulting compatibility issues

UCSD Rangmani Lab | Undergraduate Researcher Nov 2019 – May 2020
+ Designed **Python** module for predicting variables from cellular shapes difficult to experimentally measure
+ Performed principal component analysis to introduce vertical symmetry for irregularly-shaped datasets
+ Refined parameter estimates by applying mathematical models (e.g. Frechet distances) to minimize error

fortissimo | Full Stack Developer Intern Mar 2018 – Sep 2018
+ Created interactive landing and about pages via a **React** interface compatible with a 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 Jun 2017 – Aug 2017
+ Developed **Python** scripts capable of parsing 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** Jun 2020
Online chat site that randomly groups up to 8 people together in a dedicated room for a video conversation.

Little Free Kindness | **Flask, PostgreSQL, SQLAlchemy** Aug 2019
Web app facilitating the random exchange of kind, filtered messages between strangers on the Internet.

SKILLS

Languages: Python, Java, C, HTML/CSS/JavaScript, Lisp

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