

Raymond Guo

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EDUCATION

University of California, Berkeley

B.S. Electrical Engineering and Computer Science | Expected Graduation May 2021

GPA: 3.908/4

Relevant Coursework:

Efficient Algorithms and Intractable Problems
Data Structures
Computer Security (current)
Database Systems
Machine Structures
Principles and Techniques in Data Science

SKILLS

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

Frontend: React, Vue.js, jQuery

Backend: Django, Rails, GraphQL + Apollo Client, Firebase, Android Studio

AWARDS

UC Berkeley Dean's Honors List

Fall 2017, Fall 2018

Overall GPA and semester grades in top 10% of all College of Engineering undergraduates.

Oracle Certified Associate, Java SE 8

July 2017 - Present

Cal Alumni Association Leadership Award

August 2017

Recognized for international volunteering efforts to teach impoverished Chinese students computer science.

Regeneron Science Talent Search Scholar

January 2017

Recognized for research at the National Institutes of Health and publication detailing the effects of puromycin selection on the transcriptomes of human erythroblasts.

EXPERIENCE

Software Developer

Sep 2017 – Present

Berkeley CodeBase

- Student organization that builds industry experience by creating software products for Bay Area startups.
- Built full stack web applications (plasmid map visualization tool, transaction management portal) for Zymergen and Beam Financial.
- Django, React + Redux, PostgreSQL, GraphQL, AWS S3 + Cognito.

Undergraduate Student Researcher

Jan 2019 – Present

UC Berkeley Molecular Cell Biomechanics Lab

- Built computational pipeline to assemble, annotate, and analyze the raw DNA reads of the human gut metagenome.
- Simulate metabolite compositions over time to test potential cures.

Network Engineer Intern

May 2018 – Aug 2018

Johns Hopkins University Applied Physics Laboratory

- Built collection of Python, Bash, and Tcl/Expect scripts to automate configuring and managing over 800 switches and access points.
- Expanded APL's private network throughout campus shuttles with mobile routers, firewalls, and access points.

Officer

Jan 2018 – Present

Eta Kappa Nu EECS National Honor Society

- Organize review sessions and hold weekly tutoring office hours.
- Write course review content for all lower division EECS courses.

PROJECTS

Model Zoo Live (UC Berkeley RISELab Project)

Starlette + React

www.modelzoo.live

- Live prediction serving web application that utilizes model containerization (Clipper) to create interactive demonstrations of machine learning models.
- Collaborating with the Clipper team at UC Berkeley's RISE Lab since February 2019 to integrate containerization technology with web application through the Clipper API.

CommuniTeam

Rails + HTML/CSS/JS + React

www.meet-my-communitteam.herokuapp.com

- Team communication web application that allows for collaboration across multiple channels, with company announcements, group posts, and personal notes.
- Collaborative calendaring implemented with FullCalendar and Google Calendar API.