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:
Computer Security
Data Structures
Database Systems
Efficient Algorithms and Intractable Problems
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, Node.js, GraphQL + Apollo Client, Firebase, Android Studio

AWARDS

Oracle Certified Associate, Java SE 8

Jul 2017 - Present

UC Berkeley Dean's Honors List

Fall 2017, Fall 2018

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

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, employee administration 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
- Building computational pipelines that assemble, annotate, and analyze the human gut metagenome to simulate metabolite and microbial compositions over time.
- Developing models to simulate potential cures to diseases caused by microbiota imbalances.

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 Honor Society
- Organize review sessions, hold tutoring office hours, and write review content for CS 61A/B/C, CS 70, and EE 16 A/B.
- Served as Academic Intern for CS61A, leading lab sections of 30+ students and holding office hours.

PROJECTS

CommuniTeam
Rails + HTML/CSS/JS + React

www.meet-my-communiteam.herokuapp.com
- Team communication web application that allows for messaging across multiple channels, with features such as company announcements, team posts, and personal notes.
- Collaborative calendaring implemented with FullCalendar and Google Calendar API.

Count to Ten
Java + Android Studio

Google Play Store: Count to Ten – International Numbers
- Android application that teaches users how to count in 25 different languages with timed games and high score-keeping.
- Read-aloud features implemented with Android Text-To-Speech API.