Raymond L. Guo

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EDUCATION

B.S. Electrical Engineering and Computer Sciences   *EXPECTED MAY 2021*
University of California, Berkeley   GPA: 3.854
Minor: Bioengineering

Relevant Coursework: Efficient Algorithms and Intractable Problems, Operating Systems and Systems Programming, Data Structures, Database Systems, Machine Structures, Structure and Interpretation of Computer Programs, Discrete Mathematics and Probability Theory, Designing Information Devices and Systems, Multivariable Calculus

EXPERIENCE

JHU Applied Physics Laboratory, Laurel, MD - *Network Engineer Intern*   *MAY 2018 - AUG 2018*
- Built a collection of Python, Bash, and Tcl/Expect scripts to automate building, configuring, and managing over 800 switches, WLAN controllers, and access points.
- Led project to expand APL's private internal network throughout campus shuttles with mobile routers, firewalls, and access points. Currently deployed on select routes.

CodeBase, Berkeley, CA - *Software Developer*   *AUG 2017 - PRESENT*
- *(Fall 2018)* Building a tool that parses Avro files to store, visualize, and annotate plasmid maps for Zymergen, a machine-learning genomics company. React + Django, with PostgreSQL database and AWS S3 integration.
- *(Spring 2018)* Developed a full-stack web administration portal for Beam, a SF-based fintech company. React + GraphQL, with Apollo Client, Redux, and AWS Cognito integration.
- *(Fall 2017)* Built a responsive web application for the organization to manage hundreds of applications through an intuitive interface with categories, ratings, and comments. HTML/CSS/JS + Django.

Eta Kappa Nu EECS Honor Society, Berkeley, CA - *Tutoring Committee Officer*   *JAN 2018 - PRESENT*
- Organizing review sessions, holding tutoring hours, and writing review content for CS61A/B/C, CS70, and EE16A/B.
- Served as Academic Intern for CS61A, leading lab sections of 30+ students and holding office hours.

National Institutes of Health, Bethesda, MD - *Research Intern*   *MAY 2016 - JUN 2017*
- Studied the effects of puromycin selection with lentiviral transduction on the transcriptomes of primary human erythroblasts by integrating bioinformatic scripts such as Cufflinks and TopHat.
- Publication: *Puromycin Selection Confounds the RNA-Seq Profiles of Primary Human Erythroblasts (2017)*

PROJECTS

CommuniTeam - *Multi-Channel Communication Web Application*   *MAY 2018 - JUL 2018*
Rails + HTML/CSS/JS + React
- Allows for communication through separate channels, with features such as company announcements, team posts, personal notekeeping, and collaborative calendaring (implemented with FullCalendar + Google Calendar API).
- URL: *https://meet-my-communiteam.herokuapp.com/*

Count to Ten - *Educational Language-Learning Mobile Application*   *JUN 2017 - AUG 2017*
Java (native Android)
- Teaches users how to count in 25 different languages with timed games and read-aloud features implemented with the Android text-to-speech API.
- Currently on the Google Play Store: *Count to Ten - International Numbers*

SKILLS

- **Programming Languages:** Java, Python, HTML/CSS, JavaScript, C, SQL, Bash, Ruby, Scheme
- **Dev. Technologies:** Rails, Django, React + Redux, Node.js, GraphQL + Apollo Client, Vue.js + Vuex, Firebase, Android Studio, jQuery

AWARDS AND CERTIFICATES

- Oracle Certified Associate, Java SE 8 Programmer
- 2018 UC Berkeley Dean's Honor List (Top 10% of engineering class at UC Berkeley)
- 2017 Cal Alumni Association Leadership Award
- 2017 Semifinalist, Regeneron (formerly Intel) Science Talent Search