

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

Relevant Coursework: Machine Structures and Computer Architecture, Discrete Mathematics and Probability Theory, Data Structures, Structure and Interpretation of Computer Programs, Designing Information Devices and Systems

EXPERIENCE

JHU Applied Physics Laboratory, Laurel, MD - Network Engineer Intern

MAY 2018 - AUG 2018

- Built a collection of Tcl, Expect, Python and Solarwinds scripts to automate building, configuring, and managing over 800 switches, WLAN controllers, and access points.
- Led project to expand APL's internal network throughput campus shuttles with mobile routers (Netgear), firewalls (Fortigate), and access points (FortiAP). Currently deployed on select routes.
- Assisted in the integration of AWS GovCloud into network with latency and throughput testing tools such as nuttcp.

Berkeley CodeBase, Berkeley, CA - Software Developer

AUG 2017 - PRESENT

- (Spring 2018) Developed an full-stack web administration portal for Beam, a SF-based fintech company. React frontend + GraphQL backend, with Apollo Client, Redux, AWS Cognito and Lambda.
- (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 frontend + Django backend.

UC Berkeley EECS Department, Berkeley, CA - CS61A Academic Intern

JAN 2018 - PRESENT

- Lead lab sections for 30+ students, write course review material, and hold office hours for additional tutoring.

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.
- Published paper: *Puromycin Selection Confounds the RNA-Seq Profiles of Primary Human Erythroblasts (2017)*

PROJECTS

CommuniTeam - Multi-Channel Communication Web Application

MAY 2018 - JUL 2018

Rails backend; HTML/CSS/JS + React frontend

- Allows for communication through separate channels, with features such as company-wide announcements, team-specific posts, collaborative calendaring, and personal notekeeping.
- Utilizes FullCalendar + Google Calendar API for event scheduling.
- Live demo: <https://meet-my-communiteam.herokuapp.com/>

Count to Ten - Educational Language-Learning Android App

JUN 2017 - AUG 2017

Java backend; XML frontend

- 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 (5/5), Python (5/5), HTML (5/5), CSS (5/5), JavaScript (4/5), Sass (4/5), TypeScript (3/5), Ruby (3/5), Tcl (3/5), Bash (3/5), XML (3/5), SQL (2/5), Scheme (2/5), C# (1/5), MATLAB (1/5)
- **Frontend Technologies:** React + React Native + Redux, Vue.js + Vuex, jQuery
- **Backend Technologies:** Rails, Django, Node.js + Express.js, GraphQL w/ Apollo Client, Firebase

AWARDS AND CERTIFICATES

- Oracle Certified Associate, Java SE 8 Programmer
- Tau Beta Pi (TBP) Engineering Honor Society and Eta Kappa Nu (HKN) Electrical Engineering Honor Society
- 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