
Raymond L. Guo

2161 Allston Way Apartment 413, Berkeley, CA 94704

guor.lei@berkeley.edu | 240-205-3626 | www.raymondguo.me | www.github.com/guor8lei

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

Johns Hopkins University Applied Physics Laboratory, Laurel, MD - Network Engineer

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.
- 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 administration portal for Beam, a SF-based fintech banking 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 and zxcvbn + PasswordPing API for account security.
- 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: React + Redux, Vue.js + Vuex, jQuery
- Backend: Rails, Django, Express.js + Node.js + MongoDB, 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