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# 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

Coursework: Machine Structures and Architecture, Discrete Mathematics and Probability Theory, Data Structures, Structure and Interpretation of Computer Programs, Designing Information Devices and Systems I & II, Introduction to Biomedicine for Engineers, Chemical Structure and Reactivity, Multivariable Calculus, Unix System Administration

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## EXPERIENCE

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

MAY 2018 - AUG 2018

- Coding scripts using Tcl, Expect, and Python to build and modify Cisco switch configurations automatically.
- Employing network configuration management tools such as Solarwinds, Zenoss, and Riverbed to manage and maintain over 800 switches across the laboratory campus.

### UC Berkeley CodeBase, Berkeley, CA - Software Developer

AUG 2017 - PRESENT

- Developing an administration portal for Beam, a SF-based fintech company focused on providing banking services with 2-4% APY. Using React, Redux, TypeScript, and Apollo GraphQL.
- Built a responsive web application for clubs across campus to easily manage and evaluate hundreds of applications through an intuitive interface with categories, user assignments, ratings, and comments. Used HTML/CSS, JavaScript, Ajax, and Django framework.

### UC Berkeley CS Department, Berkeley, CA - Academic Intern

JAN 2018 - PRESENT

- Member of the course staff for CS61A (Structure and Interpretation of Computer Programs).
- Teaching students during lab sections (around 30 students), and holding office hours for additional tutoring.

### BidBox LLC, Bethesda, MD - App Developer

JUN 2017 - JUL 2017

- Collaborated closely with CEO and founder of the startup, coding and marketing an educational, language-learning mobile app with Android Studio.
- Currently on the Google Play Store: *Count to Ten - International Numbers*

### National Institutes of Health, Bethesda, MD - Research Intern

MAY 2016 - MAY 2017

- Implemented bioinformatic tools such as Galaxy, Cufflinks, and TopHat to determine impacts of puromycin selection on gene expression levels in human red blood cells.
- Authored published research paper: *Puromycin Selection Confounds the RNA-Seq Profiles of Primary Human Erythroblasts* (2017)

### University of Maryland, College Park, MD - Research Intern

JUN 2015 - AUG 2015

- Analyzed Landsat data and images to determine the different types and amounts of land cover and vegetation dynamics throughout the United States.
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## SKILLS

- Proficient in Java, Python, HTML, CSS, JavaScript, MATLAB, Unix shell scripting, Scheme, SQL.
  - Worked on multiple projects that include building both web and mobile applications.
  - Experience in leadership, organization, and communication, leading many organizations in high school, such as being Debate Team Captain, Math Honors Society Director, and Envirothon Team Co-Founder. Served as US Team Leader for the international volunteering group Youth Building Bridges.
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## AWARDS AND CERTIFICATES

- Oracle Certified Associate, Java SE 8 Programmer
- Member of 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