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

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.

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.

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