

# Ryan Liu

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## Education

May 2020

### **University of California, Berkeley**

- **Major:** Bachelor of Science: Electrical Engineering and Computer Science
- **Coursework:** Structure and Interpretation of Programs, Physics, Multivariable Calculus

June 2016

### **Amador Valley High School, Pleasanton, CA**

- **Weighted GPA:** 4.40/4.00, Unweighted 4.0/4.0
- **Coursework (AP Courses):** Physics C Mechanics, Physics C Electricity and Magnetism, Computer Science A, Statistics, Calculus BC

## Awards/Accomplishments

- **IEEE Joe Wujek Memorial Scholarship (May 2016):** Awarded for dedication and potential in engineering
- **VEX Robotics Judges Award (January 2016):** Awarded for excellence in STEM outreach, community service and web design
- **President's Award for Educational Excellence (June 2016):** Awarded for an unweighted GPA of 4.0
- **National Merit Finalist (February 2016):** Awarded to the top 1.25% of PSAT test takers
- **National AP Scholar (June 2016):** Awarded for average AP Score of 4 on all AP exams taken

## Skills

- Familiar with C, C++, and VBA
- Proficient in Java and Python
- Proficient in Microsoft Office, Git, Android Studio, Eclipse, Windows and Linux
- Elementary proficiency in Spanish and Cantonese

## Interests

- Badminton
- Table Tennis
- Robotics and Artificial Intelligence

## Work Experience

June 2016-August 2016

### **Firmware Engineering Intern, Infinera Corporation, Sunnyvale, CA**

- Designed software in C to convert binary calibration data from optical data transmission products into human readable text to expedite debugging efforts
- Collaborated with team to design software in Visual Basic to create script from excel data to reduce errors due to manually creating script

September 2015- June 2016

### **Student Tutor, Amador Valley High**

- Tutored students in STEM subjects and time management leading to improved grades and performance in classes. Continued to advise students on schoolwork outside of work hours

## Leadership/Projects

August 2013- June 2016

### **Amador Valley VEX Robotics Team**

- **Head of Software Division** August 2014- June 2016  
Spearheaded coordination and planning efforts with other divisions to design and build a robot on time. Guided software division members and divided responsibilities among members to improve efficiency
- **Treasurer** August 2013-June 2015  
Forecasted yearly expenditures and applied for grants resulting in a few thousand in grant funds per year

September 2012-June 2016

### **Engineering Club**

- **Vice President** August 2015- June 2016  
Organized and designed semester-long engineering projects. Expanded outreach and community service efforts resulting in greater interest in club.
- **Treasurer:** August 2013- June 2015  
Planned and coordinated fundraisers. Determined potential sources of income and shared information with other officers and club members

### **AP Computer Science Projects:**

- Clone of Pokémon Mystery Dungeon: Developed in Java, designed random map creation and enemy AI
- Solitaire
- Asteroids
- Minesweeper

### **Android App Development:**

- Flashlight
- In progress: Space shooter game

