

## EDUCATION

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University of Illinois at Urbana Champaign	Palo Alto High School
BS Computer Science in Engineering	High School Diploma
2017-2021	2013-2017
-.--/4.00 GPA	4.00/4.00 Unweighted GPA

## EXPERIENCE

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<b>Camp Counselor, FIRST Robotics Competition Team 8</b>	Summer 2017
- Taught basic VCS usage, Python, CSS, and HTML to middle school students	
<b>Advanced Authentic Research Program Student</b>	2016 - 2017
- Used MATLAB to model propagation of noise in wireless systems	
- Wrote research paper and presented at end of year showcase	
<b>Software Captain, FIRST Robotics Competition Team 6036</b>	2016 - 2017
- Led team of 4 to develop autonomous and remote control robot code	
- Instructed students in C++, Java, UNIX, and version control	
<b>Mentor, Design Farm</b>	Summer 2016
- Instructed group of 8 students in design process and principles	
- Worked on pneumatic bike and underwater drone prototypes	
<b>Mentee, Mentored by Moritz Hardt</b>	2015 - 2016
- Analyzed data in Python using numpy to illustrate unexpected bias in machine learning	
- Constructed use cases to test the effectiveness of definitions of prejudice	
<b>Assistant Coach, Wheel Kids Bike Club</b>	Summer 2015
- Taught bike safety and led groups of 15 kids on local bike trips	
<b>FIRST Robotics Competition Team 8</b>	2013 - 2016
<b>Web Captain</b>	2014 - 2016
- Lead team of 5 and instructed students in HTML, CSS, JS, and version control	
<b>Scouting Captain</b>	2013 - 2016
- Developed system to analyze competitor robots' ability and create ranked list of teams	
- Delegated tasks and managed up to 30 members in competition setting	
<b>Web Member</b>	2013 - 2016

## PROJECTS

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<b>Web-based DnD Game</b>	Nov. 2017 - Ongoing
<b>PygHack Participant</b>	Sep. 2017 - Ongoing
- Created an app to alert police of illegal parking, specifically in handicap spots	
<b>Schedule Optimizer</b>	Sep. 2017 - Ongoing
- A webapp to create schedules for students	
- Optimizes for wake-up, starting times, course difficulty, etc	
<b>Arch Linux on Laptop and Raspberry Pi</b>	Sep. 2017 - Nov. 2017
<b>Personal Website</b> (rafilong.com)	Sep. 2017 - Ongoing
<b>Built a Bicycle</b>	Aug. - Sep. 2017

## SKILLS

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Proficient with Java, Python (numpy, pandas), Git, UNIX, HTML, and CSS  
Experienced with Javascript (Node), MatLab, C++, MongoDB, and Lua

## AWARDS

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2017 - AP Scholar with Distinction  
2016 - National Merit Scholarship Finalist  
2015 - English Department Award  
2014 - Foreign Language Department Award  
2014 - Math Department Award