

Raphael Long

rafilong.com

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(650) 630-9731

EDUCATION

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

Advanced Authentic Research Program Student	2016 - 2017
<ul style="list-style-type: none">- Used MATLAB to model propagation of noise in wireless systems- Created research paper and presented at end of year showcase	
Software Captain, FIRST Robotics Competition Team 6036	2016 - 2017
<ul style="list-style-type: none">- Led team of 4 to develop autonomous and remote control robot code- Instructed students in C++, Java, UNIX, and version control	
Mentor, Design Farm	Summer 2016
<ul style="list-style-type: none">- Instructed group of 8 students in design process and principles- Worked on pneumatic bike and underwater drone prototypes	
Mentee, Mentored by Moritz Hardt	2015 - 2016
<ul style="list-style-type: none">- Analyzed data in Python using numpy to illustrate unexpected bias in machine learning- Constructed use cases to test the effectiveness of definitions of prejudice	
Assistant Coach, Wheel Kids Bike Club	Summer 2015
<ul style="list-style-type: none">- Taught bike safety and led groups of 15 kids on local bike trips	
FIRST Robotics Competition Team 8	2013 - 2016
Web Captain	2014 - 2016
<ul style="list-style-type: none">- Lead team of 5 and instructed students in HTML, CSS, JS, and version control	
Scouting Captain	2013 - 2016
<ul style="list-style-type: none">- Developed system to analyze competitor robots' ability and create ranked list of teams- Delegated tasks and managed up to 30 members in competition setting	
Web Member	2013 - 2016

PROJECTS

PygHack Participant	Sep. 2017 - Ongoing
<ul style="list-style-type: none">- An app to alert police of illegal parking, specifically in handicap spots	
UIUC ACM Projects Group Member	Sep. 2017 - Ongoing
<ul style="list-style-type: none">- Contribute to miscellaneous ongoing projects for the UIUC ACM chapter	
Schedule Optimizer	Sep. 2017 - Ongoing
<ul style="list-style-type: none">- A webapp to create schedules for students- Optimizes for wake-up, starting times, course difficulty, etc	
Raspberry Pi	Sep. 2017 - Ongoing
<ul style="list-style-type: none">- Booting Arch Linux, miscellaneous projects	
Personal Website (rafilong.com)	Sep. 2017 - Ongoing

SKILLS

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

AWARDS

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