Raphael Long rjlong2@illinois.edu rafilong.com (650) 630-9731

FDHC	ATIO	N

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
- Used MATLAB to model propagation of noise in wire	less systems	
- Created research paper and presented at end of year sh	owcase	
Software Captain, FIRST Robotics Competition Tea	m 6036	2016 - 2017
- Led team of 4 to develop autonomous and remote cont		
- Instructed students in C++, Java, UNIX, and version co	ontrol	
Mentor, Design Farm		Summer 2016
- Instructed group of 8 students in design process and pr	rinciples	
- Worked on pneumatic bike and underwater drone prote	otypes	
Mentee, Mentored by Moritz Hardt		2015 - 2016
- Analyzed data in Python using numpy to illustrate une	xpected bias in machine learning	
- Constructed use cases to test the effectiveness of defin	itions of prejudice	
Assistant Coach, Wheel Kids Bike Club		Summer 2015
- Taught bike safety and led groups of 15 kids on local b	pike trips	
FIRST Robotics Competition Team 8		2013 - 2016
Web Captain		2014 - 2016
- Lead team of 5 and instructed students in HTML, CSS	, JS, and version control	
Scouting Captain		2013 - 2016
- Developed system to analyze competitor robots' ability		
- Delegated tasks and managed up to 30 members in cor	npetition setting	
Web Member		2013 - 2016
PROJECTS		
PygHack Participant		Sep. 2017 - Ongoing
- Created an app to alert police of illegal parking, specif	ically in handicap spots	
UIUC ACM Projects Group Member		Sep. 2017 - Ongoing
Schedule Optimizer		Sep. 2017 - Ongoing
- A webapp to create schedules for students		
- Optimizes for wake-up, starting times, course difficult	y, etc	
Arch Linux on Laptop and Raspberry Pi		Sep. 2017 - Ongoing
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Sep. 2017 - Ongoing

Aug. - Sep. 2017

SKILLS

Built a Bicycle

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

Personal Website (rafilong.com)

2016 - National Merit Scholarship Finalist

2015 - English Department Award

2014 - Foreign Language Department Award

2014 - Math Department Award