Raphael Long

rjlong2@illinois.edu
(650) 630-9731

rafilong.com

EDUCATION

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

Relevant Coursework:

CS 126 Software Design Studio, CS 173 Discrete Structures, CS 225 Data Structures

EXPERIENCE

Software Engineering Intern, Capital One — 2018 - Ongoing
- Constructing internal data visualization tools

GNU/Linux User Group — 2017 - Ongoing
- Learned about GNU, Linux, and open source

Camp Counselor, FIRST Robotics Competition Team 8 — Summer 2017
- Taught basic VCS usage, Python, CSS, and HTML to middle school students

Advanced Authentic Research Program Student — 2016 - 2017
- Used MATLAB to model propagation of noise in wireless systems
- Wrote research paper and presented at end of year showcase

Software Captain, FIRST Robotics Competition Team 6036 — 2016 - 2017
- 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
- Instructed group of 8 students in design process and principles

Mentee, Mentored by Moritz Hardt — 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

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 and create ranked list of teams
- Delegated tasks and managed up to 30 members in competition setting
Web Member — 2013 - 2016

PROJECTS

Schedule Optimizer — Sep. 2017 - Dec. 2017
- A webapp to create schedules for students
PygHack Participant — Sep. 2017
- Created an app to alert police of illegal parking, specifically in handicap spots
Arch Linux on Laptop and Raspberry Pi — Sep. 2017 - Nov. 2017
Personal Website (rafilong.com) — Sep. 2017 - Ongoing
Generic RPG — May 2017

SKILLS

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

AWARDS

2017 - AP Scholar with Distinction
2016 - National Merit Scholarship Finalist