

## EDUCATION

### Carnegie Mellon University

B.S., Stats/Machine Learning '20  
minor in computer science  
minor in chemistry

## RELEVANT COURSEWORK

### COMPUTER SCIENCE

Graduate Machine Learning  
Computer Systems  
Imperative Programming  
Functional Programming  
Software Design  
Python Programming

### STATISTICS / MATH

Practical Data Science  
Statistical Differencing  
Probability Theory  
Discrete Math  
Linear Algebra

## SKILLS

### PROGRAMMING LANGUAGES

Python, Java, C, SML, JavaScript

### TOOLS & FRAMEWORKS

Angular2, Jekyll, Git, Vim,  
HTML/CSS,  $\text{\LaTeX}$

### DESIGN PROCESS

Sketch, wireframing, paper  
prototyping, storyboarding

## HONORS & AWARDS

Feb '17 **2<sup>nd</sup> Place (\$1024), Overall**  
*HopHacks*

Feb '17 **APT Sponsor Award (\$600)**  
*TartanHacks*

Mar '15 **JSHS Program Scholarship**  
*Department of Defense*

Mar '15 **National JSHS, Presenter**  
*National Junior Science and Humanities Symposium*

Mar '15 **2<sup>nd</sup> Place, Overall**  
*New York Junior Science and Humanities Symposium*

## EXPERIENCE - INDUSTRY

### Amazon

software developer engineer intern, **ai algorithms**  
· AWS Deep Learning

seattle, wa  
summer '18

### Fulcrum Global Technologies

legal software developer intern  
· Worked with MarkLogic and SQL to create an engine to standardize dirty data.  
· Built a dynamic model of a law firm using ASP.NET Entity Framework.  
· Designed and built legal dashboards using ASP.NET MVC and DevExpress.

chicago, il  
summer '17

## EXPERIENCE - ACADEMIA

### Institute for Software Research

research assistant  
· Partitioning deep neural networks across devices to lower energy consumption.

pittsburgh, pa  
spring '18

### Carnegie Mellon School of Computer Science

teaching assistant  
Led labs, held office hours, and graded coursework for:  
CS 15-122, Principles of Imperative Programming (i.e., Data Structures)

pittsburgh, pa  
fall '17

### University of Washington

research assistant (remote)  
· Automated analysis and organization of data on an FTP server.  
· Experimentally corrected instrumentation bias of air temperature readings.

new york, ny  
spring '14 - spring '15

## PROJECTS

### Keyboard-based tab navigation Chrome extension

[ JavaScript, HTML/CSS ]

Enables users to quickly navigate between tabs with highly-customizable keyboard shortcuts. Removes the need for searching through a haystack of tabs and making tabs of websites already open.

### Knowledge graph of political nexus

[ Spark, Kafka, NLTK, Neo4j, Elasticsearch, Flask, Angular2 ]

Streams news articles in real-time and tags related entities. After constructing knowledge graphs, hidden connections between businessmen, politicians, etc. are made accessible via the Nexus API and web client.

### Messenger-based political assistant bot

[ Django, api.ai, NLTK, Microsoft Cognitive Services ]

Provides a political news digest to users upon request across FB Messenger. Based on the citizen's interests and values, they can seamlessly contact their senators, donate to causes, or get involved in local activism to make a difference.

### Password security proof-of-concept program

[ Python ]

Collects and analyzes handwriting tendencies of different users. It is able to successfully differentiate between a profiled user and an imposter using a self-written k-NN algorithm with less than 20 training instances per character.

**HOBBIES:** Long-distance running, digital photo/videography, journaling, tennis.