

EDUCATION

Carnegie Mellon University

BS Stats/Machine Learning Dec '19
minor in computer science
minor in chemistry

RELEVANT COURSEWORK

COMPUTER SCIENCE

Graduate Machine Learning
Parallel Algorithms
Computer Systems
Algos and Adv. Data Structures
Imperative Programming
Functional Programming
Software Design

STATISTICS / MATH

Advanced Data Analysis
Data Mining
Practical Data Science
Modern Regression
Probability Theory
Discrete Math

SKILLS

PROGRAMMING LANGUAGES

Python, Java, C/C++, JavaScript

TOOLS & FRAMEWORKS

Unix, SQL, Angular2, Jekyll, Git, Vim,
HTML/CSS, L^AT_EX

DESIGN PROCESS

Sketch/Figma, wireframing, paper
prototyping, storyboarding

HONORS & AWARDS

Feb '17 **2nd 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*

* denotes in-progress

EXPERIENCE - INDUSTRY

Amazon

seattle, wa
summer '18

software development engineer intern, **ai algorithms**

- Implemented internal shingling of data for the Random Cut Forest (RCF) library.
- Extended an API to granularize RCF scores to provide per-dimension values.

Fulcrum Global Technologies

chicago, il
summer '17

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.

EXPERIENCE - ACADEMIA

Institute for Software Research

pittsburgh, pa
spring '18

research assistant

- Partitioned deep neural networks across devices to lower energy consumption.

Carnegie Mellon School of Computer Science

pittsburgh, pa
fall '17

teaching assistant

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

University of Washington

new york, ny

research assistant (remote)

spring '14 - spring '15

- Automated analysis and organization of data on an FTP server.
- Experimentally corrected instrumentation bias of air temperature readings.

PROJECTS

Analysis of my personal journal [Python, NLTK, Stanford CoreNLP, TextBlob, textgenrnn]

Analyzed my personal journal of four years (350+ pages) to identify trends that promote happier writing, which may be correlated to a happier life.

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.

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

Updated 05/25/19