

## EDUCATION

### Carnegie Mellon University

GPA: 3.43/4.0 | May 2020

B.S. in Statistics and Machine Learning  
minor in computer science

## RELEVANT COURSEWORK

### COMPUTER SCIENCE

Machine Learning  
Algorithms and Data Structures  
Fundamentals of Programming  
Software Construction  
Web Prototyping  
Imperative Programming  
Interaction Design

### STATISTICS / MATH

Probability Theory  
Discrete Math  
Linear Algebra  
Statistical Inference  
Statistical Visualization (ggplot2)  
Data Visualization (d3.js/Tableau)  
Modern Regression  
Introduction to Data Science  
Statistical Computing  
Multivariable Calculus  
Statistical Methods  
Modern Regression

## SKILLS

### LANGUAGES

Python, Java, Javascript, C (familiar), R, SQL

### TOOLS & FRAMEWORKS

Git, React, Django, d3.js, HTML/CSS, Shiny, ggplot2, openCV, numpy, pyautogui, JUnit, Spring Boot, Material-UI

### MISC

Sony Vegas, OBS, Audacity, LaTeX

## EXPERIENCE – INDUSTRY

### Capital One

mclean, va

software engineer intern

june – aug 2019

- Developed data dashboard with React and d3.js to visualize 100+ million customer records and to evaluate overall data pipeline health.
- Implemented real time tracking and logging of customer information files from different lines of businesses.
- Built RESTful API with Spring Boot to abstract querying from Spark log files and core customer databases.



### ASTM International

conshohocken, pa

technical intern

may – aug 2018

- Designed and improved UI for in-house statistical reporting software with Bootstrap and Material design.
- Developed software to parse databases and classify thousands of users with hierarchical clustering algorithms.
- Extracted and cleansed data for hundreds of client samples to construct a pipeline for data analysis and visualization with external R scripts.



### Digital Media Academy

cambridge, ma

curriculum developer / instructor

may – aug 2017

- Lead instructor for iOS development, Game Design, and Advanced Java.
- Led team of 3 to devise and revamp curriculum for advanced Java Course.

## ACTIVITIES

### Computing for Good

student developer

- Collaborated with local hospitals and UPMC to create applications to detect abnormal body behavior through body-worn sensors.
- Developed software to recognize atypical changes in human position and behavior in crowds with computer vision and time series anomaly detection.
- Analyzed thousands of 911 operator calls with natural language processing to improve location transmissions to EMS.
- Featured by Metro21 Smart Cities Institute.

## PROJECTS

### Pittlets | python, django, bootstrap, sqlite3

- Platform to help students solve housing issues. Making it easy for students to find roommates, post sublet listings, and transfer expiring leases.

### Schedulize | python, pandas, sci-kit learn, pygame

- Recommender system for course suggestions based on a student's academic record. Awarded Best Design Hack Winner at HackCMU.