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EDUCATION

New York, NY **Columbia University** **Sept. 2015 – May 2019**

The Fu Foundation of Engineering and Applied Science

- B.S.E. in Computer Science; Dean's List; GPA: 3.81; In-major GPA: 4.01
- Relevant Undergraduate Coursework: Advanced Software Engineering; Analysis of Algorithms; Natural Language Processing; Artificial Intelligence; Elements of Data Science; Advanced Programming; Databases; Data Structures

EMPLOYMENT

Software Engineer, Intern **Amazon** **May 2018 - August 2018**

- Created an extensible platform to help customers make informed purchasing decisions when deciding between similar products (like Echo devices) or looking to purchase a line of products (like home security systems)
- The platform allows product managers and site merchandisers to create a short survey about relevant products and make targeted recommendations to customers based on pre-defined rules and customer answers
- Had complete ownership over the project and went through the entire development cycle including requirements gathering, design (had both front-end and back-end design approved by organization-level design board), development, intensive code reviews, and daily scrum updates
- Worked with project managers, business representatives, and the user experience team to ensure everyone was up-to-date with my progress and all requirements were met
- *The platform will be shipped to Amazon.com this Fall*

Data Scientist **Brick Accretive Management** **September 2016 – May 2018**

- Performed Python programming for early-stage SaaS company that works alongside a fund
- Developed an unbiased sentiment algorithm that guides the positioning and risk profile of the fund
- The tool aggregates data to predict stock market trends, both intraday and over time
- Spent between four and twenty hours a week writing scripts to pull in unstructured data, score it, and then analyze it for trends
- Third person to join the team of a five-person startup (the fund and SaaS company together)

Software Engineer, Intern **Remedy Partners** **May 2017 – August 2017**

- Built an internal-facing website to host the reports generated by the analytics department
- The website automates the generation of many reports, allows data to be filterable, and highlights the most important points
- Worked on a team of five programmers, gaining experience writing production-level code, working on an agile development cycle, constantly getting feedback, and extensively using version control software
- Owned and developed the website front-end and back-end, using Clojure and Clojurescript

Data Analyst, Intern **Remedy Partners** **May 2016 – August 2016**

- Used Python in addition to Pandas, Numpy, and other statistic libraries extensively to analyze data, web scrape, and data mine in the healthcare sector
- Worked alongside senior data analysts to complete both short-term and long-term projects
- Helped transition their product to the commercial market

TECHNICAL EXPERIENCE

Projects

- **AutoIntern (Spring 2018)** Banking workflow app that allows for easy file management and note-taking with sophisticated permissions administration developed for Advanced Software Engineering. Python with Django framework, PostgreSQL, CircleCI, Google Cloud
- **Feed-Forward Neural Network (Spring 2018)** Created a feed-forward neural network for sentence dependency parsing for my Natural Language Processing course. Python, DyNet
- **Predicting County Presidential Winners (Fall 2017)** Used many different models to predict county presidential winners from the 2012 elections; algorithms/models tested include random forest, k-nearest neighbors, gradient boosting, support vector machine, and logistic regression. The best model used logistic regression and had an accuracy of 85.6% on unseen data. Python, Scikit
- **AI Player for Reversi (Fall 2017).** Created an AI player to play the game Reversi (also known as Othello) efficiently for my Artificial Intelligence class. Python

Languages and Technologies

- **Experienced**: Python, Clojure, ClojureScript, Pandas, Git, Linux, Unix, Emacs, CircleCI
- **Intermediate**: Java, JavaScript, C, Google Cloud, SQL
- **Familiar**: HTML, C++