

Education

Rutgers University School of Arts and Sciences Honors Program, May, 2019

Bachelors of Science in Computer Science and Cognitive Science, GPA: 3.40/4.0

Employment

Facebook, Inc. Data Engineering Intern, New York, New York
American online social media and networking company

Summer, 2018

- Implemented **machine learning and cosine similarity algorithms** to classify user Instagram Collections based on content and **suggest top Collections** for new media
- Generated a set of **heuristics to identify low-quality Reviews**; developed large-scale pipelines to flag, continuously remove, and analyze **millions of fake recommendations**

The New York Times Data Engineering Intern, New York, New York
American newspaper and global media organization

Summer, 2017

- Created a high-dimensional and high-volume **dataflow pipeline** to **analyze and forecast subscriber usage** for revenue purposes; data is then reported to stakeholders
- Optimized the ETL process by rewriting SQL queries and fine-tuning the PySpark job and DataProc cluster to run **87% faster at 10% of the cost**
- Tuned **support vector regression algorithms** to **predict potential subscribers** given their usage patterns and the patterns of paid subscribers

Symphony Software Engineering Intern, New York, New York
Communications platform founded by Goldman Sachs and funded by several Wall Street firms

Summer, 2016

- Implemented a new Elasticsearch data model that uses **80% less space** while **reducing search time by 30%**, with enhanced search accuracy
 - Fixed several security vulnerabilities and other severe bugs, while writing BDD test cases
 - Won “Best Intern” and “Best Financial Services” awards at the company-wide **Bot-a-thon**
-

Projects

Tinder Bot, Python GUI

2017

A Tinder bot that does the swiping for you

- Uses OpenCV to identify the face and certain facial components, and a neural network to predict swipes based off of facial components i.e. hair/eye color

Instagram Analyzer, Python Script

2018

Helps with caption generating and finding the best time to post

- Utilizes TensorFlow and OpenCV to detect objects in images, a RNN to generate a caption, and then Markov Chains to generate a meaningful caption

iMessage Analyzer, Mac Application

2018

Analyzes all of a user's iMessages to reveal interesting trends

- Shows how friendships and texting habits change over time
 - Predicts time of next contact given the duration between all prior contacts
 - Automatically generates replies using decision trees and Markov Chains
-

Languages & Technologies

- **Experienced:** Java (several paradigms), Python, SQL, Objective-C (Cocoa & iOS), R
- **Familiar:** Pandas, NumPy, Spark, PySpark, JavaScript (UDFs), Bash, Vim, Git, C, LDIF
- **Other Frameworks:** Elasticsearch, scikit-learn, Spring, JUnit, JBehave, Kafka, MBean