

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

Activities & Awards: Rutgers Student Managed Fund, 1st Place PwC Consulting Challenge

Employment

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

Summer, 2016

Communications platform founded by Goldman Sachs and funded by several Wall Street firms

- 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**

Previous: CommVault (CVLT). (Tinton Falls, New Jersey)

Summer, 2015

Javelin Capital Markets, LLC. (New York, New York)

Summer, 2014

Projects

iMessage Analyzer, Mac Application

2016

Analyzes all of a user's messages from the database on the computer

- 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

Rutgers University, Part-Time, New Brunswick, New Jersey

2016

Open System Solutions – primary developers for Rutgers University's services

- One of two developers for the Rutgers iOS app with tens of thousands of daily users

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 ie. hair/eye color

Instagram Analyzer, Python Script

2017

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
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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