Ryan C. D’souza Greater New York City Area  
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**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  *Summer, 2017*

American newspaper and global media organization

* Created a high-dimensional and high-volume **dataflow pipeline** to **analyze and**   
  **forecast subscriber usage** for revenuepurposes; 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

**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