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 Cognitive Science and Computer Science, GPA: 3.2/4.0

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

**Employment**

**Symphony** Intern, New York, New York  *Summer, 2016*

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

* Improved search by removing query inefficiencies ***(30% time reduction)***,and by   
  implementing a data model that uses ***80% less space*** while enhancing accuracy
* Solved several security vulnerabilities and other severe bugs, while writing BDD test cases
* Won “Best Intern” and “Best Financial Services” bots at the company-wide ***Bot-a-thon***

**Rutgers OSS** Part-time, New Brunswick, New Jersey  *Spring, 2016*

Primary developers for Rutgers University’s services

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

**CommVault (CVLT)** Intern, Tinton Falls, New Jersey  *Summer, 2015*

Data management, protection (security and disaster recovery), backup, and cloud storage company

* ***Fully developed*** a Mac application to quickly and securely back up an ***entire computer*** or   
  certain directories to the cloud, listen and then upload file modifications, and handle filters
* *Devised a* ***dynamic scanning algorithm*** that takes into account the number of directories   
  and subdirectories to determine an efficient number of scanning threads to create

**Previous:** Javelin Capital Markets, LLC. (New York, New York)  *Summer, 2014*

**Projects**

**Bring Me Food,** Android and iOS Application*2014 - 2015*

A refined version of Uber for crowd-sourcing the delivery of food.

* Client chooses menu items from a restaurant and a notification is sent to drivers   
  in the area, who can then claim the order and send delivery status updates

**iMessage Analyzer,** Mac Application *2015*

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

* Shows how friendships and texting habits change over time
* Predicts how likely you are to text a person based on the time and when they   
  were last contacted. Auto-generated replies (Machine learning – decision trees)

**Tinder Bot,** Python GUI *2016*

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

**Languages & Technologies**

* **Experienced:** Objective-C (Cocoa & iOS), Java (several paradigms), Python
* **Familiar:**SQLite, JavaScript (NodeJS & Parse), Bash, Vim, Git, LDIF
* **Java Frameworks & Projects:**Spring, ElasticSearch, JUnit, JBehave, MBean, Kafka