Ryan C. D’souza Greater New York City Area  
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**Employment**

**CommVault (CVLT)** Tinton Falls, New Jersey *Software Engineering Intern, 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
* ***Dynamic scanning algorithm*** takes into account the number of directories and subdirectories to determine an efficient number of scanning threads to create

**Javelin Capital Markets, LLC.,** New York, New York *Software Engineering Intern, 2014*

Swap Execution Facility for Interest Rate Swaps (debt instruments with $1,000,000 min. value)

* Developed a program to efficiently stream thousands of quotes per second across a network to multiple Excel spreadsheets for price modeling. **(*30% time reduction*)**
* Built several automated testing systems to continuously test various trading features under different conditions. ***(4 tests built that test 10 different platform features)***
* Helped switch system from FixML to FPML for validating trades with CMEX & LCH
* Implemented backend for executing Butterfly Swap trades using the C.L.O.B.

**Projects** *(Current and Past)*

**Stock Calculator,** Android Application and Java GUI *2013*

Uses an algorithm I wrote to determine whether a stock’s price will increase in the future.

* The algorithm downloads and takes into account the company’s P/E ratio, Beta, Income Statement, Balance Sheet, Cash Flow, and historical trading data.

**Facebook Message Analyzer,** Android Application *2014*

Analyzes a user’s last 5000 Facebook messages in both private chats and group messages

* Shows most used words, average response time, and average word and sentence length
* Analyzes how people respond in a group chat (time & length of reply) based on gender

**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 enroute to the client’s location

**Facebook Analyzer,** iOS Application *2015*

Analyzes a user’s posts and photos to determine statistics about their usage and their ‘friends’

* Ranks friends based on their number of likes and comments, and how their actions changed overtime, similar to how friendships change overtime.
* Takes into account post-per-month variation and when friendships began on Facebook

**Languages & Technologies**

* **Experienced:** Objective-C (Cocoa & iOS), Java (proficient in all paradigms), Python, Android
* **Advanced:**SQLite (CTE statements), JavaScript (NodeJS & Parse), C, Bash, Vim, Git

**Additional Information & Education**

* ’19 School of Arts and Sciences Honors Program, Rutgers University, New Jersey
* I love all aspects of Computer Science, especially Artificial Intelligence. I’m really interested in the Human Behavioral aspect of Psychology. Though my main experience is in mobile development, I am open to learning new languages and developing on different platforms.