Ryan C. D'souza

Greater New York City Area

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Education

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

Bachelors of Science in Cognitive Science and Computer Science

Employment

CommVault (CVLT) Tinton Falls, New Jersey　　　　　　　　　　　　　　　　　　　*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　　　　　　　　　　　　　　*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 message 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

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