Ryan C. D'souza

Based in Princeton, NJ

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Employment

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

Trading platform for Interest Rate Swaps (debt instruments with $1,000,000 minimum 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.

Present.tv, Princeton, New Jersey *Android Developer Intern, 2014*

Princeton Tiger Labs backed startup for the real-time sharing of videos

- Assisted Senior Android Developer in developing a custom recording app to record videos while simultaneously uploading them to Amazon Web Services
- Built login and signup screens for the Android app

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.
- Parses Nasdaq to get real time stock quotes (as opposed to other apps' 15 min. delay)

Bring Me Food, Android and iOS Application *2014*

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

- Client will choose items from a restaurant, submit the order, and all the drivers who signed up will get a notification about the live order. Drivers can then claim the order & send updates as notifications to the client

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
- In implementation under guidance of a Princeton University Professor: How emotions change throughout the day and week using Natural Language Processing

Languages & Technologies

- **Experienced:** Java (proficient in all paradigms), Android (all-around, from UI to backend)
- **Advanced:** JavaScript (NodeJS), Objective-C, C++, Bash, Git, Vim

Additional Information

- I love all aspects of Computer Science, especially Artificial Intelligence. I'm really interested in using historical data to understand and predict future events. Though my main experience is in Java, I am open to learning new languages and developing on different platforms. I've attended several hackathons, and am in the process of organizing one. I'm also an Eagle Scout, an avid hiker, and an Ultimate Frisbee and table tennis lover.