

## Ryan C. D'souza

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### Description & Technologies

*An aspiring 17 year old interested in Artificial Intelligence and Natural Language Processing*

**Java:** GUI/SWING, AWT, Java DataBase, SQL, File I/O, Advanced MultiThreading and Concurrency, Network (POST and GET Requests), Applets, Apache Commons Library

**Android:** DataBase/SQL, Animations, MultiThreading & Asynchronous Tasks, Networking, JSON Requests/Parsing, Notifications, Google Glass, Widgets, Services, BroadcastReceivers

**Key Words:** Bloomberg API, Facebook API, Parse library, ZXING Library (Image Processing), C++, AppleScript, LaTeX, Terminal, VBA, Mac OSX, Linux, Bash, Git

**Education:** HackPrinceton 2014S, PennApps 2014S/F, PClassic 2013S/2014F, Project Euler, Quora, Princeton High School Class of 2015, University of Michigan Intro. to Finance ( Coursera), Java for Business Applications(Mercer College), Princeton University Intro. to Algorithms(Coursera)

### Work Experience

- **Javelin Capital Markets LLC.** July - September 2014  
*High frequency trading platform for Interest Rate Swaps* *Paid Software Engineering Intern*
  - Developed a program to efficiently stream thousands of quotes per second to an Excel spreadsheet for price modeling
  - Built several automated test systems to continuously test various platform features under different conditions
- **Present** February 2014 - Present  
*Princeton Tiger Labs backed start-up for real-time sharing videos* *Android Developer*
  - Assisted Senior Android Developer in developing a custom recording app to record videos while simultaneously uploading them to AWS
  - Built a large portion of the UI and login code for the app

### Projects

- **Stock Calculator** Java Desktop App (GUI) and Android Application  
*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 and Beta Ratio, Income Statement, Balance Sheet, Cash Flow, and historical trading data.
  - Parses Nasdaq to get real time quote of a stock (as opposed to other apps' 15 min. delay)
- **Bring Me Food** iOS and Android Application  
*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.
  - The client will get updates via Notifications from the driver. A time-based fee will be charged on delivery.
- **Facebook Message Analyzer** Android Application  
*Analyzes a user's Facebook messages in private chats and group messages(last 5000 messages)*
  - Shows most oftenly used words, average response time, and average word and sentence length
  - Analyzes how people respond in a group chat (ex. if a girl sends a message, how many guys respond right away compared to when a guy sends a message)
  - In implementation under guidance of a Princeton University Professor: How emotions change throughout the day and week using Natural Language Processing

**Personal:** Eagle Scout (Eagle Project over 572 hours), Red Cross CPR and First Aid certified, avid hiker, white water rafter, and skier, Ultimate Frisbee lover