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 and table tennis lover