Ryan C. D'souza

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Description & Technologies

An aspiring 17 year old looking for a career in Computer Science, Finance, and Economics

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

Education: Princeton High School Class of 2015, HackPrinceton 2014S, PennApps 2014S/F, PClassic 2013S/2014F, Project Euler, Quora, U. Mich. 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 consitions

- **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 companys 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 app's 15 min. delay)

- **Facebook Message Analyzer** Android Applica
  Analyzes a users Facebook messages in private chats and group messages (last 5000 messages)
  - Shows the word used the most often, 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

- **PHS PowerSchool** Android Application
  Application that streamlines a repetitive process for all PowerSchool users

- Automatically logs student into PowerSchool, reducing a two minute log-in process to less then 30 seconds and eliminating the need for typing and clicking
- GPA calculator that calculates the Weighted and Unweighted GPA of the current year
- Ability to easily copy important information about several assignments to the clipboard, which aides in the creation of a To-Do list for seeing teachers about certain assignments