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

- **App Searcher**   Android Application
  Google Play's fastest Android equivalent of iOS's built-in application searcher.
  - Uses optimized algorithms and multithreading to load the user's list of installed apps four-five seconds faster then the competition's current load time. Speed is important when you want to open an app quickly.
  - Memory Efficient: Efficiently designed to use 80% less memory then its competition
  - App begins running on system boot and can be opened from either the Notification Bar or Chat Head. Runs silently and quietly in the Notification Bar, just click on it to open. Chat Head drawn on screen can be moved anywhere in the screen and clicking on it will immediately open AppSearcher.

- **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 Exchange to get real time quote of a stock the user enters (as opposed to 15 minute delay that other apps give)

- **QEvent Share**   Android Application

  Streamlines event creation and sharing.

  - Shows all events the user has for the week in a week view beginning on the current date, as opposed to beginning on Sunday like all other calendar apps
  - Easily add new events by clicking on the date title of the events date and setting the time
  - Unique feature to share the event using QRCodes. Simply click on an already created event (or newly created event) and the option to share it via QR Code pops up. On the WeekView default screen, there is the option to Import a QRCode. When the QRCode is scanned, the event information is showed to the user who then can edit the event before saving it.

- **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