

## 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 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 app's 15 min. delay)
- **Facebook Message Analyzer** Android Application  
*Analyzes a user's Facebook messages in private chats and group messages (last 5000 messages)*
  - 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 QR Codes. 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 QR Code. When the QR Code 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 than 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