

Ryan D'souza

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Computer Science:

- Attended PennApps, premier college level hack-a-thon at UPenn, and HackPrinceton at Princeton U.
- Proficient in several languages, but mainly:
 - **Java:** GUI/SWING, AWT, Java DataBase, SQL, File I/O, MultiThreading, Network (POST and GETRequests), Applets, Apache Commons Library
 - **Android:** DataBase/SQL, Animations, MultiThreading & Asynchronous Tasks, Networking, JSONRequests/Parsing, Notifications, Google Glass, Widgets, Services, BroadcastReceiver

Work experience:

- Javelin Capital Markets LLC – Paid Intern (Summer 2014)
 - Trading platform for Interest Rate Swaps in NYC
- Present – Android Developer (Spring – Fall 2014)
 - Princeton Tiger Labs backed start-up
- FireStop – Quality Assurance Tester (Spring – Fall 2014)
 - Princeton University e-Labs backed start-up
- Trenton Kebab House - Web designer, social media manager (2011 – 2013)
 - Restaurant in Trenton

Apps created:

- **Stock Calculator** – Java Desktop GUI and Android Application – Rates stocks
 - Parses Nasdaq Exchange to get real time quote of a stock the user enters (as opposed to 15 minute delay that other apps give)
 - Uses an algorithm that takes into account the company's P/E, Beta, Financial Sheet, Balance Sheet, Income Statement, and historical trading data to determine if it is a good buy
- **File Manager** – AppleScript application – Streamlines file management and organization
 - Prompts for the assignment title (type it in) and name of the class (button choice)
 - Automatically opens a blank document in Microsoft Word, writes name, the current date, the class name, the class period, and the assignment title in bold
 - Saves the document in the respective class Dropbox folder with the assignment title as the file name
- **QEventShare** – Android Application – Streamlines event creation and sharing
 - Streamlines adding/sharing events by allowing events to be created/shared via QR Code
- **PHS PowerSchool** – Android Application – Help students easily view grades
 - View class grades faster by automatically logging in and opening the PowerSchool grades home page
 - Calculates both the weighted and unweighted GPA
 - Unique feature selects multiple assignments and copies them to the clipboard to make a To-Do list
- **App Searcher** – Android Application – Mimics the iOS search bar (Android doesn't have one)
 - Show a list of all the installed apps faster and with less memory than similar apps in the Play Store
 - Open it via the Notification Bar or a chat head that can be moved around the screen
 - Sort by either use or name to find required app
- **Prom Me** – Android Application – Concept of Tinder, but for Prom
 - Users view other people's Facebook profile pictures and decide if they would want to go to prom with them. If two people choose each other, they are notified
 - Proof of concept: will not be released
- **Shopder** – Android, Google Glass, iOS, and Web application – Increases the accuracy of a store's targeted advertisements on a consumer while making shopping cheaper and quicker for the consumer
 - User chooses a near-by store and creates a shopping list. An item's bar code can also be scanned.
 - Their shopping list is returned with an aisle number for each item
 - Store receives shopping list from user and can send targeted advertisements to user. Ex. Shopping List Item: 4 boxes of brownie mix. Store Advertisement: Buy 1 dozen eggs, get the 2nd dozen free. Logic: Eggs are needed to make brownies
- **Pitch Counter** – Android and iOS Application – Tracks pitches because of League laws that limit the number of pitches a player can make
 - Pitch Counter allows the coach to make a list of pitchers, add games for each pitcher, and in each game, put the number of Strikes and Balls the pitcher made
 - Coach can view players by number of pitches or their ratio (Strikes / total pitches)
- **Keyboard Scrambler** – Android application
 - Fun game that makes the user type a series of words with a scrambled keyboard
 - Three levels and thousands of possible words (obscure, but legitimate words)

- **Pacman** – Java GUI. Classic Pacman game written in Java
- **Bring Me Food** – Android and iOS Application (Freelance work)
 - Client orders food to be delivered to an address using either the iOS or Android app (similar to Uber)
 - Drivers (the friend and the friends of the friend who wanted the service) receive the order via a driver iOS/Android app, claim the order, get the order, and drop it off at the client's address.
 - Driver sends updates along the way
- **Facebook Message Analyzer** – Android Application
 - Analyzes a user's 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
 - Shows the time intervals throughout the day when a user responds the quickest and writes the most
 - In implementation under guidance of a Princeton University Professor: How emotions change throughout the day and week using Natural Language Processing

Classes outside of high school:

- University of Michigan's Introduction to Finance (Coursera, 'A') (11)
- Java for Business Applications (Mercer County Community College, 'A') (10)
- Princeton University Algorithms I (Coursera, Observer) (11)

Special interests, hobbies, talents, other

- Finance – Investing (ForEx and stocks)
 - I'm a swing trader, long-term investor, and blogger (rdsouzaecon.blogspot.com)
 - Built an app to rate stocks based on my knowledge of good financials
- Red Cross CPR and First Aid Certified
- United States Naval Academy Summer Seminar (11)
- Adventure Sports (hiking, camping, white water rafting, skiing)
- Youth Orchestra of Central Jersey (10, 11).
 - Toured Salzburg, Vienna, and Prague
- Health Care Ministry (11, 12)
 - Care/companionship to senior citizen, repaired his furniture, reorganized/cleaned his room, and taught him how to use the computer
- Church (8 – 12): Lector, Altar Server, Youth Group, Trumpet player during Church services
- Innovation Home Improvements, LLC – (Summer 2012) Assistant handyman in assembling dry-wall, spackling, sanding, painting, polishing

Leadership

Red Cross

- Princeton High School Red Cross Club & Service Group Chapter President (10, 11, 12)
- New Jersey Red Cross Youth Council Secretary and Head of Outreach (10, 11, 12)

Boy Scouts

- Eagle Scout. Eagle Project: Built 3 trophy cases for the Princeton HS Band Department (10, 11)
 - 572 hours (planning, fundraising, and building)
 - Coordinated 40 scout/adult volunteers
- Elected positions held: Senior Patrol Leader (11); Assistant Senior Patrol Leader (10); Patrol Leader (9); Troop Scribe (9)
- Counselor in Training, Ockanickon Scout Reservation (8 weeks) (9)
- National Youth Leadership Training (10)
- Brother, Order of the Arrow (10)
- Philmont, New Mexico, High Adventure trek (10)
 - Backpacked at 8,000 ft. altitude over 100 miles for 12 days

High School Clubs & Activities

- Princeton Tiger Tech (9, 10, 11, 12)
 - Princeton High School Programming Competition/Algos Team (11): weekly meetings to solve programming questions
 - PClassic 2013F, 2014S, 2014F (University of Pennsylvania Competition) (11, 12)
 - Open sourced solutions to Project Euler problems (11, 12)
 - Repaired broken iPhones, Android phones, iPod Touches, and laptops (10, 11, 12)
- Model United Nations (9, 10, 11, 12)
 - Crisis committee at 5 conferences
 - Chair, Iroquis Committee at upcoming PHS conference
- Prayer Club (9, 10, 11, 12)
 - Helped fundraise several hundred dollars to support children in Bangladesh
 - Active member, participated in various activities, including a 36-hour fast
- Ultimate Frisbee (9, 10, 11)