

Ryan C. D'souza

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Description & Technologies

18 and pursuing a C.S. degree with a focus 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

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