Eddy **Ionescu**

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Experience

UGO Wallet / TD Bank
Toronto, Canada

SOFTWARE DEVELOPER
May 2016 - August 2016

Jenkins Pipeline
- Implemented a Multi-Branch Continuous Integration solution that generates pipelines from Git branches in Gitblit and pushes builds to QA via HockeyApp, speeding up the development cycle - ***Groovy, Bash and Python***.
- Held discussions with team-leaders from Development and QA to establish requirements and procedures

iOS
- Improved navigation and usability by replacing the hamburger menu with tabs - ***Objective-C***.
- Implemented and tested various fraud-analysis REST APIs - ***Swift***.

Android - ***Java in Android Studio***
- Worked with developers to implement MixPanel analytics events, user-flows, and implement/test network calls with the back-end team for a major project as to automatically and securely migrate the user's mobile-wallet to a different SIM-card

- Created an Android library that allows other apps to use UGO's loyalty/gift cards functionality/UI and integrated it into the TD App
- Implemented location-based feature that showed cards relevant to nearby merchants using Google Places API
- Initiated transition to Material Design by integrating AppCompat into the existing app, adding various Material-exclusive features, and presenting it at the biweekly developer huddle.

KMH Cardiology & Diagnostic Centres
Toronto, Canada

MOBILE APP DEVELOPER
July 2015 - August 2015

Xamarin - ***C# in Visual Studio***
- Created two Android and iOS apps: one for referring physicians and another one for patients (iRefer KMH and KMH Labs)
- Created local SQLite database that stores and retrieves submitted forms using LINQ and SQL

Projects

Transibot
Transibot.com

CHATBOT THAT TELLS YOU WHEN THE NEXT BUSES AT YOUR CLOSEST STOPS WILL ARRIVE IN REAL-TIME
Dec. 2016 - PRESENT
- Facebook Messenger Chatbot that retrieves real-time information by parsing the real-time GTFS feed from Waterloo Region.
- Uses the NextBus REST API as to support more transit systems, including San Francisco's BART/MUNI, and Toronto's TTC.
- Set up ***MongoDB NoSQL*** database as to quickly retrieve the closest stops based on coordinates given - ***Node.JS***.
- Configured ***Ubuntu AWS EC2*** instance for the development bot that had SSL setup using NGINX, and used ***AWS Elastic-Beanstalk*** for the production bot, which adds auto-scaling and seamless deployment

Sentima
Sentima.Sentimize.me

CHATBOT THAT TELLS SENTIMIZE WHAT TO PLAY AND CONTROLS PLAYBACK
Sept. 2016 - PRESENT
- ***Ruby on Rails*** running on AWS Elastic Beanstalk binds with the Android app running in the background as a service.

Sentimize.me
Ongoing Side-Project

LETS PEOPLE SORT THEIR LOCAL MUSIC BASED ON HOW THEY WANT TO FEEL
May. 2016 - PRESENT
- Analyzes the key, tempo, and pitch of songs as to predict their moods - ***C++, NDK, and Superpowered SDK***
- ***SQLite*** database caching. Made with ***Material Design*** in Android Studio. Published on Google Play

Algorithms

Canadian Computing Competition
University of Waterloo

TOP 50 OUT OF ABOUT 1500 STUDENTS IN THE SENIOR CANADIAN COMPUTING COMPETITION
May 2015

Don Mills Open Programming Contest Problem-Setter
Don Mills Collegiate Institute

DON MILLS ONLINE JUDGE
Sep. 2014 - June. 2015
- Wrote algorithmic problems (graph-search, sorting, DP, greedy, etc.) for the DMOPC, which was held monthly and written by about 150 students from across Ontario
- Was a lead-organizer of the Don Mills Programming Gala, an on-site programming contest attended by 120 students

Hackathons

iHear   *University of Waterloo*

HACK THE NORTH   *Sep. 14. 2016 - Sept. 16. 2016*
- Built sound-localization component of a VR-headset intended to allow deaf people to feel more connected to their surroundings
- Mounted microphones that were connected to an Arduino on the headset, which then streamed audio to the back-end via a TCP socket. The stream was then processed in JS and the results were pushed to the headset (Unity on Google Cardboard)

HackTogether   *University of Pennsylvania*

PENNAPPS XIII   *Jan. 26. 2016 - Jan. 28. 2016*
- Built Android app (in Android Studio) where hackers entered their interests and skills and then placed them into teams
- Used Parse back-end and Python program to form the teams

Education

University of Waterloo   *September 2015 - December 2019*

BACHELOR OF HONOURS COMPUTER SCIENCE