ANGAD SINGH PURI

B.A.Sc. Computer Engineering Candidate 2B

University of Waterloo

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Profile

- Expertise in **Object Oriented Programming** Concepts and applicable software **design patterns**
- Strong teamwork skills and experienced version control user (Git and SVN)
- Complete understanding of **data structures and algorithms** and **core Android concepts**
- **+1.5 years**' experience in developing **Android** apps in JAVA gained through various side projects (+10 apps on GitHub)
- Passionate about working in teams and proven ability to work under pressure in a fast pace environment

Skills and Interests

- **Languages**: JAVA, C++, Python, Android
- **Scripts and Software Skills**: JavaScript, CSS, HTML, AJAX, JQuery, SQL(SQLite), XML, Restful, MongoDB, JSON, Edxlib
- **Other Languages and Platforms**: Android Studio, Eclipse, Django, Git, XCode, R, C, Junit testing(Postman)
- **Interests**: Machine Learning, Android App Designing, Web Designing, Game Development

Internships

Software Developer Intern, Blackberry Jan 2017–April 2017

- Worked in **UNIX** based environment, developed Android applications and services in **JAVA** using **native Android SDK** including applications for Blackberry Hub, Contacts, Calendar, Tasks, and Notes
- Incorporated project development in Agile Sprint (**SCRUM**) and worked in team using **Gerrit** Code Review tool
- Integrated **WhatsApp** and **LinkedIn** APIs to gather notifications from respected platforms to display in BB-Hub
- Developed an efficient **email attachment filter** which provides the users all email attachments in one activity
- Developed a **snooze feature** that allows the user to view higher priority email at a later, time or location
- Designed an API containing information about all 6 apps that display ads after 30 days and designed **UI/UX** for ads
- Contributed on the idea of implementing **dark theme** in BlackBerry Hub+ Suite and integrating the feature into the Suite
- Closed **43 issues** with **102 code-reviewed** contributed to the master branch improving the performance of the suite by **88%**

Projects and Development Work

Diabetic Risk Predictor-Machine Learning App (Python, R, Android Studio)

- Implemented **Random-forest algorithm** that predicts the chances of diabetes with **94% accuracy**
- Reduced the number for input parameters for prediction from 14 to 5, improved the validation accuracy from **48% to 94%**
- The goal of the project is to replace doctor involved for looking up the reports and save money of the patient by reducing the number of tests taken by patient

Tweetme (Django, AJAX, JQuery, Restful, Bootstrap, HTML, CSS, JavaScript)

- A social media web application that gives the users an opportunity to express their thoughts in 140 word-limit
- Designed a **Django Restful API** that stores user tweets and used **JQuery** and **AJAX** to display the data from API
- User can retweet, auto-search tweets, like other tweets, use hashtags and tag other users in his/her post
- Used **graph theory** to provide the list of recommended followers based on the users they follow

ConnectU App (Android Studio)

- Social networking mobile application that connects people and allows them to share photos, videos efficiently
- Designed **JAVA** backend using **MongoDB** for storing user's information on **Parse cloud** server dashboard
- Created intuitive UI using **XML** and **Adobe Photoshop** and Integrated **Facebook API** to login using Facebook user Id

Path Findr (Android Studio)

- Determines and displays a path between two points on an indoor map that updates based on user position
- Designed and implemented a **pedometer algorithm**, by identifying patterns from the accelerometer readings in a **finite state machine** to determine when a step is taken
- Filtered raw sensor data to account for noise and bias by using the low pass filter which attenuates high frequency signals

For more projects kindly visit my GitHub link: github.com/Angad02