Akshay Pall

University of Waterloo **1B Software Engineering**

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Skills

Languages: Experienced with Java (Android), C; Familiar with C++, Javascript, Bash, Octave
Libraries/APIs: Volley, Retrofit, Firebase, Google Play Services, Facebook, Parse
Tools: Android Studio, Git, SVN, Sketch, Arduino, Tiva Launchpad

Experience

Mindbend Studio · Co-Lead Android Developer   July 2015 - December 2015

- Built main **Android** client for infor[me], an app to simplify announcements within large organizations
- **Modularized design** to retain and communicate information between instances of duplicate fragments
- Deployed beta release to over **1000 users** and developed additional features such as a **layered administrative control panel** and inter-organizational post **approval system** based on feedback
- Wrote server functions for permissions-handling throughout organization tree in **Javascript** using **Parse**
- Wrote functions to **manage state** of post approvals and updates amongst **multiple administrators**
- Implemented **callbacks** and **interfaces** throughout to ensure asynchrony and minimize loading times
- Drafted mockups in **Sketch** to create unified **UI/UX** for both iOS and Android

Projects

Speakr · Real-Time Speech Analysis App
- Parsed audio in real-time using the **Azure Cognitive Services** API
- Conducted **numerical analysis** of speech to provide user with a framework for self-improvement
- Visualized data using **Android GraphView** in graph format to see variation over time

BitDate · Android Tinder Clone
- Constructed real-time matching and chat between users using **Firebase**, **Parse**, and **Facebook** APIs

Discoveo · Geographical Exploration Android App
- Notified users of nearby "hot spots" based on geolocation data from **Google Play** services and past data

SE Sound Sequencer · Mini-Digital Audio Workstation
- Developed real-time audio manipulation software in **C** on the **Arduino**-based Tiva Launchpad

Education

Dean's Honours List · 3.9 GPA · University of Waterloo

Schulich Leader Scholarship · $80 000 · University of Toronto

Additional Coursework

Python for Data Analysis · Udemy
- Data science using **Pandas** and **NumPy** libraries for **Python**

Machine Learning · Stanford University
- Intro to **Machine Learning** for software development using **Octave**