

Akshay Pall

University of Waterloo **2A Software Engineering**

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Skills

Languages: Experienced with Java, Have projects with Python, C, C++, Scala

Frameworks/Libraries/Tools: Android, Flask, Jinja2, Retrofit, OkHttp, EventBus, GSON, Picasso, SQLite, SQLAlchemy, Firebase

Experience

CBC/Radio-Canada • Native Apps (Android) Developer Coop

May 2017 - August 2017

- Developed major UI/UX features such as a **theme engine** for the CBC News App, increasing user customization for over **400k+ MAUs**, resulting in **25% increase** in user **session time**
- Contributed to **internal Android framework** to **reduce dev time** in sister CBC apps
- Integrated **NFC** for article sharing (Innovation Week) to encourage more shares from the app
- Implemented tracking calls using **Amplitude** and set feature flags for **A/B testing** to optimize user experience, resulting in improved user engagement metrics
- Wrote **migration logic** to **import preferences** from previous News app instances and store them in the new model, **addressing issue** reported by hundreds of users.



Mindbend Studio • Lead Android Developer

July 2015 - December 2015

- Built **Android** app for **infor[me]**, an app to simplify announcements within large organizations
- Deployed beta release to **>1000 users** and developed additional features based on feedback
- Wrote backend service for permissions-handling throughout organization tree using **JS & Parse**
- Drafted mockups in **Sketch** to create unified **UI/UX** for both iOS and Android



Projects

Songify • Music Playback Service with a Statistical Touch

- Complete music player for **Android** with beautiful animations and a unique UI
- **Scraped Billboard.com** to track movement of Top 100 tracks over time in **Python**
- Wrote **RESTful** backend service to provide smart info, statistics, and cover art data using **Flask**

AutoResizingTextView • Open-Source Android Library

- A custom TextView which **automatically detects** if the containing text is being **clipped** (out of bounds) and then **redraws** itself with a decreased font size to **fit**.

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

Bit Chat • Android Tinder Clone

- Implemented **swipe-to-match** and **real-time chat** features between users using **Firebase**
- Integrated **user authentication** through **Facebook**