Akshay Pall

University of Waterloo **2A Software Engineering**

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Skills

Java (Android) · Python · C · C++ · Bash · Octave · Scala

Experience

CBC/Radio-Canada · Native Apps (Android) Developer Coop   May 2017 - Present
- Developed major UI/UX features such as the **theme engine** for the CBC News App **400k+ MAUs**
- Wrote **libraries** for **internal Android framework,** shared across all CBC mobile apps
- Integrated **wireless** technologies such as **NFC** for article sharing (Innovation Week)
- Worked with Google to develop and release a CBC News **instant app** at **Google I/O '17**
- Implemented tracking calls using **Amplitude** and set feature flags for **A/B testing** to optimize user experience, resulting in improved user engagement metrics

Mindbend Studio · Lead Android Developer   July 2015 - December 2015
- Built **Android** client 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 Player with Predictive Info
- Complete music player for **Android** with beautiful animations and a unique UI
- Scraped BillBoard site 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**

Various Libraries · Public Libraries
- **AutoResizingTextView**: auto detection of text outside the view's bounds and then resizing down to fit.
- **Practice_Problems**: solutions to **Hackerrank** problems and assorted data structure implementations

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

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

Management

Academic Representative · September 2016 - Present
- Addressed concerns of students in the Software 2021 class to Professors to maximize academic success
- Organized events such as resumé critiques with other organizations to improve class employment rates

Engineering Ambassador · September 2016 - Present
- Official Engineering Ambassador to represent the University of Waterloo at outreach events and on campus