

# Akshay Pall

University of Waterloo **Software Engineering**

 akshaypall.me  
 github.com/akshaypall  
 linkedin.com/in/akshaypall  
 akshay.pall@uwaterloo.ca  
 (647) 961-8297

## Skills

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**Languages:** Java, Python, Scala, C, C++

**Frameworks/Libraries:** Android, Flask, Jersey, Retrofit, OkHttp, EventBus, GSON, SQLite, SQLAlchemy

## Experience

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**Yahoo! Mail** • Software Engineering Intern

January 2018 - April 2018

- Contributed to **Oath** Migration Framework, moving over **80 million** users from AOL to Yahoo
- Developed internal tool to verify migrated messages by cleaning and comparing data from a sample set of users
- Rewrote the byte comparison module using a **thread pool** and **queue** to deal with rate and connection **restraints**, resulting in a **performance improvement of 30x**
- Enhanced various **admin APIs** using **Jersey** for use in controlling various migration processes



**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 development time** in sister CBC apps
- Integrated **NFC** for article sharing to encourage more shares from within 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



**Mindbend Studio** • Lead Android Developer

July 2015 - December 2015

- Built **Android** app for **infor[me]**, designed 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**



## Projects

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**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**
- **Addresses issue** present in Android until Google released a similar fix as part of **Android API 26**

**Request** • Group Finances Manager

- Designed ledger/active system to **record all transactions** while also pulling a user's balance in **one query**
- Wrote **friends endpoints** for requesting, adding, accepting, and listing friends