






# Akshay Pall

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## EDUCATION

### UNIVERSITY OF WATERLOO

BSE (Software Engineering)  
3A (Junior)  
Sep. 2016 - May 2021  
Cum. Avg.: 85%

## SKILLS

### Languages:

Java • C/C++ • Scala • Python  
•  $\LaTeX$  • Bash

### Technologies

DynamoDB • Flask • Jenkins •  
Jersey • Android •  
SQLAlchemy • MySQL

### Areas of Interest:

Distributed Systems  
Backend Engineering  
Infrastructure Engineering

## AWARDS

Term Dean's Honours List (1A)  
Schulich Scholar for UofT  
Lieutenant Governor's Ontario  
Heritage Award

## ACTIVITIES

University of Waterloo  
Engineering Ambassador  
4x Waterloo Software  
Engineering Academic Rep

## EXPERIENCE

### Yahoo! | Software Engineering Intern

January 2018 - April 2018 | Sunnyvale, CA

- Contributed to Oath Migration Framework, moving over **80 million users** from AOL to Yahoo
- Reconfigured workflow properties to **remove deadlocks** and **reduce job failure** rates by **10%**
- Added metadata parsing in scheduler to reduce load on recovery jobs
- Wrote crawler for Yahoo! Calendar to schedule missing notifications, remediating issues for over **2 million users**
- Modularized and extended verification job by adding offline state loading/saving to allow for increased manual debugging
- Enhanced various admin APIs using **Jersey** for use in controlling various migration processes

### CBC/Radio-Canada | Android Developer Coop

May 2017 - Aug 2017 | Toronto, ON

- 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
- Implemented tracking calls using **Amplitude** and set feature flags for A/B testing to optimize user experience, resulting in improved user engagement metrics
- Integrated NFC for article sharing to encourage more shares from within the app

### Mindbend Studio | Co-Founder & Android Developer

July 2015 - December 2015 | Brampton, ON

- 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

### Lacs Compiler Compiler for a subset of Scala

- Supports type checking, inner functions, first class functions, closures, and runtime garbage collection via **Cheyney's Copying** algorithm
- Compiles into Mips assembly using CYK parsing and an abstract syntax tree written in **Scala**

### 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

### Songify Music Playback Service with a Statistical Touch

- Android music player 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**