Akshay Pall

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EDUCATION

UNIVERSITY OF WATERLOO
BSE (Software Engineering)
3A (Junior)
Sep. 2016 - Present
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
Winter 2018 & Fall 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
Summer 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
Summer - Fall 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**