






Akshay Pall

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EDUCATION

UNIVERSITY OF WATERLOO

B.SE (Software Engineering)
3A (Junior)
Sep. 2016 - Present
GPA: 3.9/4.0
Cumulative Average: 85%

SKILLS

Languages:

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

Technologies

Flask • Jenkins • Jersey •
Android • SQLAlchemy •
MySQL

Areas of Interest:

Distributed Systems
Backend Engineering
Infrastructure Engineering

AWARDS

Term Dean's Honours List (1A)
President's Research Award
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

Fall 2018 - Present | Sunnyvale, CA

- Responsible for **maintaining uptime** and handling user complaints for Yahoo! Calendar, a product with **300+ million MAUs**
- Reinforced **deployment pipeline** to construct environments more rigorously, increasing uptime to **95%**
- Wrote crawler for Yahoo! Calendar to find and schedule missing notifications, remediating issues for over **2 million users**

Winter 2018 | Sunnyvale, CA

- Contributed to Oath Migration Framework, moving over **80 million users** from AOL to Yahoo Mail
- Reconfigured system workflow properties to **remove deadlocks** and **reduce job failure** rates by **10%**
- Produced and consumed additional metadata for all jobs to improve **context reconstruction** on recovery
- Rearchitected several jobs to adhere to AOL Mail's rate limit by **distributing** requests over multiple threads
- 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

Mindbend Studio | Co-Founder & Android Developer

Summer - Fall 2015 | Brampton, ON

- Built Android app for **infor[me]**, designed to simplify announcements within large organizations
- 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**