

Akshay Pall

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Experience

Facebook | Software Engineering Intern

August 2020 - December 2020

- Worked on the Target Determinator (TD) which determines what to build and test as part of the continuous integration (CI) flow for Android
- Migrated and updated TD logic from PHP implementation to a new system with declarative rules written in Starlark
- Parallelized execution of shared TD framework, reducing average runtime by 40%

Bloomberg | Software Engineering Intern

Jan 2020 - April 2020

- Designed a real-time, data-agnostic distributed alerting system on custom criteria in Python
- Utilized custom Solr for prospective search on criteria (Solr queries); Kafka for event I/O; and ComDB2 for persistence, authentication, and preferences
- Maintained versioned document state in Cassandra for in/out alerting
- Provided observability and alarming on system metrics via Grafana

Facebook | Software Engineering Intern

May 2019 - Aug 2019

- Wrote a PrestoDB connector for Cubrick, an in-memory MOLAP DB, to leverage its low-latency with Presto's scalability and extensibility in Java using Thrift for RPC
- Implemented query filter pushdown optimization to smartly move portion of compute to storage, reducing amount of unnecessary data pulled from source

Oath | Software Engineering Intern

Sep 2018 - Dec 2018

- Wrote crawler for Yahoo Calendar to remediate missing notifications for > 2M users in Java
- Observed and corrected bugs across Yahoo services: message queue (CMS), distributed NoSQL DB (Sherpa), and search index (Vespa); and in ical4j Calendar Library

Yahoo! | Software Engineering Intern

Jan 2018 - Apr 2018

- Worked on Mail Migration Framework, moving > 80M accounts from AOL to Yahoo
- Built CLI tool to run individual jobs on-demand for troubleshooting

CBC/Radio-Canada | Native Apps Developer Coop (Android)

May 2017 - Aug 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

Education

University of Waterloo Bachelor of Software Engineering

Sep 2016 - May 2021 (expected)

87% cumulative GPA, 3x Term Dean's Honours List