

Waseef Shawkat

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EDUCATION

University of Waterloo - B.A.Sc. Honours Computer Engineering

Sept. 2016 – Apr. 2021

EXPERIENCE

Snowflake

May 2021 – Present

Software Engineer II (Backend)

Toronto, ON | May 2022 - Present

- **Best Practices** reviewer and **Security Partner** for the Native Applications team. Responsibilities include ensuring PRs are following Java best practices, modularization and rollback safety. Security Partner responsibilities include assisting other engineers on developing threat models and guiding team members through penetration testing.
- Co-led the **Containerized Applications** effort to allow developers to run their Native Applications as containers within Snowflake. Implemented the security model, SQL commands, UI integration, and the Operational Readiness plan to make it GA (Generally Available).
- Co-led the **Streamlit** integration in Snowflake. Awarded **patent** for innovative use of Streamlit as Native Application's UI framework along with new SQL syntax and commands.
- Collaborated with teams across Snowflake to **clarify product ambiguity and establish dependencies** to deliver complex features like the ability for users to suspend and resume applications.

Software Engineer I (Backend)

Toronto, ON | May 2021 - Apr 2022

- **First member** of the Snowflake Engineering team hired in Toronto; worked directly with architects and product managers to shape Native Applications. Implemented and owned several core parts of the framework, with special focus on the RBAC security model.
- Wrote operational plans and run books for Native Applications. Setup performance tests to measure key metrics like duration and database transaction counts in order to track regressions.
- Led a 6 month technical effort to allow 1st party Native Applications to be pre-installed in every Snowflake account.

Software Engineer Intern (Backend)

San Mateo, CA | Sept 2022 - Apr 2021

- Designed and implemented a custom **pub/sub** backend service in Go to allow for asynchronous tasks to be run by the Snowflake UI for periodic aggregations, filters or data corrections.

Technologies & Tools

- Java, Python, Go, foundationDB, Postgres, Docker, Kubernetes, Bazel

Accenture (Liquid Studio) - *Software Engineer Intern (Full Stack)*

Toronto, ON | Sept 2019 – Dec. 2019

- Led a team of 3 interns for a prototype project to track the authenticity of luxury clothing items using a Hyperledger Fabric blockchain network with a React Native mobile application
- Utilized Docker to containerize each blockchain node and migrate the blockchain network from AWS Managed Blockchain to a fleet of EC2 instances reducing cost from \$500/month to \$90/month
- *Technologies & Tools* - React Native, Node.js, DynamoDB, Hyperledger Fabric, AWS

Kik Interactive - *Software Engineer Intern (Backend)*

Waterloo, ON | Jan. 2019 – Apr. 2019

- Implemented several gRPC routines in different micro-services to develop features where users can spend Kin cryptocurrency within the app; led up to 25,000 daily active crypto spenders
- Scaled up services by implementing Redis caches on database layers and rate limiters to handle up to 200 calls/second
- *Technologies & Tools* - RxJava, gRPC, Redis, DynamoDB