

# Sakeeb Hossain

437-889-9395 - [sakeeb.hossain1@gmail.com](mailto:sakeeb.hossain1@gmail.com) - [github.com/SakeebHossain](https://github.com/SakeebHossain) - [linkedin.com/in/sakeebhossain](https://linkedin.com/in/sakeebhossain)

## Summary

---

Experienced and versatile software developer with expertise in Python and Golang and a strong background in CI/CD management and automation, software stability testing, operational health and application monitoring.

## Education

---

### University of Toronto

Honors Bachelor of Science (BSc), Computer Science, Software Engineering Stream

Toronto, ON

September 2014 – May 2019

## Professional Experience

---

### IBM

Back-End Developer, TM1 Server Infrastructure Team

Toronto, ON

June 2019 – July 2023

- Delivered 100+ bug fixes and enhancements to a large Golang/C++ code base. Investigated customer reported issues, then implemented code changes plus Postman-based tests for validation, ensuring future product stability.
- Designed solution to manage the collection and processing of core dumps for a cloud-based distributed application, orchestrated with Kubernetes. Service collects diagnostics data and saves them to a S3 compatible object store.
- Developed a web app using React, Express.js, and PostgreSQL to store crash history and automate crash triage through stack trace analysis, serving over 4800 customers in production. Introduced a reporting dashboard, enabling more easily searchable data and integrated chart.js for comprehensive graphs and analytics. Streamlined issue identification and tracking, resulting in hundreds of hours saved for support analysts.
- Developed tooling for automation of stability and performance testing as part of Jenkins CI/CD. Established standards for reliability of results by adding scripts to compare resource usage and report anomalies, leading to earlier discovery of critical issues. Greatly reduced manual test efforts and shortened total release process duration by 50%.
- Spearheaded quality initiatives for CI/CD, such adding a Python bot that prioritizes PRs based on custom Git labels, adding support for static analysis and code coverage checks for PRs, introduction of using Docker containers as build agents for more efficient use of hardware resources.
- Helped implement a custom Golang-based log library for flagship product enabling ingestion of product logs into log management tools like LogDNA and Logstash.

### CIBC

Software Developer Intern, Electronic Financial Transactions Team

Toronto, ON

January 2017 – April 2017

- Reduced time needed by 10% to generate ATM uptime report by optimizing key SQL queries. Made improvements to web dashboard by introducing a map to visualize location of faulty ATMs.

### Ontario Ministry of Government and Consumer Services

Application Developer Intern, Media Delivery Service Team

Toronto, ON

May 2016 – August 2016

- Upgraded site to use JWPlayer as main video player, enabling users to load videos with (resolution, described audio, etc.). Wrote automated tests, testing websites across multiple browsers for accessibility guideline compliancy.

## Technical Skills

---

**Languages:** Bash, Python, Golang, Java, Javascript, HTML, CSS, C++

**Frameworks and Libraries:** ReactJS, Node.js, Express.js, gRPC, Groovy, Gin

**Tools:** Git, Linux, Docker, Kubernetes, AWS, IBM Cloud, Jenkins, Travis, Postman, JMeter, Artifactory, PostgreSQL, VSCode