

# Labib Chowdhury

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## EDUCATION

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### Queen's University

*Master of Science, Cybersecurity*

Kingston, ON

Sep. 2021 – Apr. 2025

### University of Toronto

*Honours Bachelor of Science, Computer Science and Statistics*

Toronto, ON

Sept. 2016 – June 2021

## EXPERIENCE

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### Software Engineer

*Goldman Sachs - API Platform*

July 2023 – Present

Toronto, ON

- Managed AWS services using Terraform, Gitlab CI, and Grafana to achieve a 99% uptime on the API Platform while handling approximately 1 billion requests per week
- Orchestrated the migration of the egress proxy across 35 clusters, transitioning from a third-party solution to an in-house proprietary service resulting in a significant reduction of company-wide licensing fees
- Executed a comprehensive feature comparison analysis of the API Gateway against industry benchmarks, identifying service gaps to modernize legacy router
- Led project to enhance observability in proprietary gateway by integrating Prometheus and Grafana, enabling real-time monitoring of traffic and system health to ensure high availability and performance

### Software Engineer Intern

*Goldman Sachs - Data Lake*

Jun. 2022 – Aug. 2022

Toronto, ON

- Created Spark jobs to query partitioned data stored on HDFS through SparkSQL for efficient data retrieval
- Added logical partitioning support during data retrieval resulting in faster data merging and ingestion
- Deployed stateless service endpoint exposing result of SQL query allowing users to leverage response during data consumption

### Software Engineer Intern

*Amazon - AWS GuardDuty*

Jun. 2020 – Aug. 2020

Vancouver, BC

- Enhanced AWS GuardDuty and Macie Findings by decorating with Account Details to minimize additional effort
- Created caching layer with DynamoDB to store Account Details in order to reduce cost of data transactions
- Extended backend by working with internal AWS APIs to retrieve necessary information
- Increased unit test code coverage of microservices to above 80%

### Software Engineer Intern

*BlueCat Networks - Cloud DNS*

Sep. 2019 – May 2020

Toronto, ON

- Developed test harness to analyze which microservices are the biggest factors on product performance
- Added documentation to several microservices to increase documentation coverage of services to 70%
- Implemented upgrades on SaaS product to integrate with our DDI solution in order to expand user-base
- Debugged issues with Jenkins pipelines to ensure continuous operation of CI/CD system

### Software Engineer Intern

*Royal Bank of Canada - Database Admin*

Apr. 2019 – Aug. 2020

Toronto, ON

- Performed common Oracle DBA tasks such as installing Oracle client on Windows/Unix servers, creating Oracle databases, and managing database objects
- Added new and removed redundant database instances from monitoring tool to improve efficiency and accuracy of our monitoring service
- Led team of interns in the development of a SlackBot for a company organized Innovation Challenge, in which my team placed 2nd in the Student Vote Category

## TECHNICAL SKILLS

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**Languages:** Java, Python, Golang, SQL (Postgres), JavaScript, TypeScript, HTML/CSS, R

**Frameworks:** React, Node.js, Flask, JUnit, PyTorch, Numpy, Pandas, Apache Spark

**Developer Tools:** Git, Docker, Kubernetes, Gitlab CI, Jenkins, Amazon Web Services, Google Cloud Platform, JIRA, MongoDB, Hadoop, Prometheus, Grafana