# Labib Chowdhury

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↖ http://www.labibc.com/

## EDUCATION

**Queen's University,** *Master of Science - Computing*
09/2021 – 04/2023 | Kingston, Canada
**Specialization in Cybersecurity**

**University of Toronto,** *Honours Bachelor of Science*
2016 – 2021 | Toronto, Canada
**Computer Science - Statistics**
Dean's List Award - 2017
Vice President | Computer Science Student Union - 2020/21

**Relevant Coursework:**
Data Structures & Algorithms
Artificial Intelligence, Machine Learning
Data Analysis, Object-Oriented Programming
Algorithm Design, Operating Systems, Database
Design, Neural Networks

## SKILLS

**Strong**
*Python, JavaScript, Java, Bash*

**Familiar**
*C, PHP, R*

**Frameworks**
*PyTorch,  NumPy, Pandas, Angular, React, NodeJS, Flask, jQuery, TypeScript, Apache Spark*

**Databases**
*PostgreSQL, MongoDB, Oracle, DynamoDB, Hadoop*

**Tools/Other**
*Git, AWS, Docker, Jenkins, Google Guice, Vim, LaTeX, Unix, HTML, CSS, Kanban, Scrum*

## PROFESSIONAL EXPERIENCE

**Summer Analyst (Engineering Division),** *Goldman Sachs*    06/2022 – 08/2022 | Toronto, Canada
- Worked on **Data Lake** team allowing internal users to produce, consume and transform data for their specified use case
- Created **Spark jobs** to query partitioned data stored on **HDFS** through **SparkSQL** for fast and efficient data retrieval
- Added **logical partitioning** support during data retrieval for client's use case resulting in **faster data merging and ingestion**
- Constructed **design document** outlining end-to-end implementation of new feature ensuring consistency during development
- Deployed **stateless service endpoint** exposing result of SQL query allowing users to leverage response during data consumption

**Software Development Engineer Intern,** *Amazon Web Services*    06/2020 – 08/2020 | Vancouver, Canada
- Enhanced **AWS GuardDuty and Macie** Findings by decorating with Account Details to minimize additional effort for customers
- 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%**
- Documented and designed implementation details in order to practice transparency and receive feedback which lead to **high quality and efficient code**

**Software Engineer Intern,** *BlueCat Networks*    09/2019 – 05/2020 | Toronto, Canada
- 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
- Participated in **Agile process** to employ good development practices and **produce results**

**Developer Co-op,** *Royal Bank of Canada*    05/2019 – 08/2019 | Toronto, Canada
- 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 i**mprove efficiency and accuracy** of our monitoring service
- Wrote various scripts to **simplify and automate repetitive tasks**
- 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