

# Shashwat Regmi

Canadian Citizen | [www.shashwatregmi.github.io](http://www.shashwatregmi.github.io)

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## Education

### University of Pennsylvania

Starting Jan 2024

#### Master of Science in Engineering (MSE) in Data Science

- Currently pursuing part-time studies in UPenn's MSE-DS program, specializing in the fusion of CS and DS.

### The University of British Columbia

May 2023

#### Bachelor of Science (B.Sc.) in Computer Science, with Distinction

- CGPA: 3.9/4.0 (A) - Dean's Honour List Recipient
- Relevant Coursework: Software Engineering, Internet Computing, Machine Learning/Data Mining, Data Visualization, Algorithms & Data Structures, Advanced Relational Databases, Hardware and OS, Matrix Algebra, Calculus I/II/III.

## Experience

### Software Developer I

July 2023 - Present

#### Citi

Toronto, ON

- Working on a team to develop low-latency Java based microservice(s) that flag equity transactions based on pre-trade and at-trade risk factors in order to perform trade order validation. Resulting in reduced processing times and increase in customer satisfaction and acquisition.
- Developing a Java-based order simulation application that continuously feeds orders to numerous microservices and verifies the correct execution of various trade risk-check workflows on local, regional, and global levels. Leading to substantial time savings for developers, QAs and Production Support.

### Developer Intern, RBC Amplify

May 2022 – Aug 2022

#### Royal Bank of Canada

Toronto, ON

- Innovated a patent pending end-to-end framework, using TypeScript, Node.js, Kafka, Angular, and MongoDB, that streamlines the insight delivery flow by providing proactive client-specific recommendations to investment advisors.
- Implemented recommender systems using an ensemble model in an effort to deliver proactive financial insights, resulting in over 20% time savings for advisors and 10% increase in customer satisfaction.
- Developed and called APIs that authenticate and deliver insights with prioritization, tracking, and ranking functionality.

### Software Engineer (Part-Time)

Dec 2021 – Apr 2022

#### Change Healthcare (acquired by UnitedHealth Group/Optum)

Vancouver, BC

- Led the development of a full stack web application using C#, .NET, APIs, and React that pulls thousands of records from GCP BigQuery based on user entered parameters, and generates user-friendly customizable reports.

### Software Development Engineer Intern

Sept 2020 – Aug 2021

#### Change Healthcare (acquired by UnitedHealth Group/Optum)

Vancouver, BC

- Implemented a back-end Windows Service Server using C# and .NET Core, that continuously communicates with cloud applications for status updates/facilitation of encryption keys rotation, leading to over 90% time savings for support staff.
- Developed a full stack web application using C#, .NET, APIs, and React, that facilitates the connection and data transfer between mission-critical on-premise medical imaging systems and cloud applications through autonomous key rotations.
- Implemented an application that pushes custom metrics, from over 10 imaging systems, to Google StackDriver and Grafana thus reducing error identification/diagnosis time by over 50%.

## Projects

### ComputerMag | Java / JavaScript / SQL / HTML / CSS

- Created web application that allows users to view computer and component details through a variety of filterable and searchable reports as well as read/write reviews. Implemented SQL Queries and APIs that facilitate CRUD operations.

### my laundry | Java / Google Firebase

- Built a full stack mobile application, using Java and Cloud Firestore, that allows authenticated users to securely search and book, track, and manage communal laundry machines based on real-time machine availability and date/time filters.

## Skills

**Languages:** Java, C#, JavaScript/TypeScript, Python, C++, C, SQL, HTML, CSS.

**Other:** Object Oriented Programming, Software Development, Data Management, Data Visualization, Machine Learning, Data Structures & Algorithms, Version Control, Debugging, Product Testing, Google Cloud Platform, Container Systems.