

Shashwat Regmi

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Education

Master of Science in Engineering (MSE) in Data Science

Expected May 2025

University of Pennsylvania

CGPA: 4.0/4.0 (A)

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

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

May 2023

The University of British Columbia

CGPA: 3.9/4.0 (A)

Experience

Software Engineer

May 2024 - Present

Optum (Subsidiary of UnitedHealth Group)

Vancouver, BC

- Developed and implemented a round-robin workload management system for radiologists using C#, .NET, and JavaScript, optimizing case allocation based on available seats and on/off hours thus reducing manual case assignment.
- Enhanced the CI/CD pipeline by updating Groovy scripts to retrieve specific artifacts from Artifactory using AQL queries, based on various parameters, and processing/integrating the results for VM image creation in Jenkins.
- Refactored and optimized existing codebase to eliminate compiler warnings, enhancing overall efficiency and maintainability while adhering to best practices and improving system performance.

Software Developer I

July 2023 – April 2024

Citi

Toronto, ON

- Working on feature enhancements and improvements for various low-latency Java-based microservice(s) that flag equity transactions based on pre and at trade risk factors in order to perform trade order validation.
- Led the migration and productization of a library by identifying, classifying and porting extraneous functionality in order to make application leaner for downstream users, resulting in substantial resource and performance savings.
- Developed a Java-based order simulation application that continuously feeds orders and verifies the execution of trade risk-check workflows on regional/global levels, increasing productivity for developers, QA, 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 a 10% increase in customer satisfaction.
- Developed and called APIs that authenticate and deliver insights with prioritization, tracking, and ranking functionality.

Software Development Engineer Intern

Sept 2020 – Aug 2021

Change Healthcare

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 key 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.
- Built an application that pushes custom application metrics to Grafana thus reducing error diagnosis delay by over 50%.

Projects

ComputerMag | Java / JavaScript / SQL / HTML / CSS

- Created a 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, 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.