

# Shashwat Regmi

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

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## Education

### Master of Science in Engineering (MSE) in Artificial Intelligence

Expected May 2026

University of Pennsylvania

CGPA: 4.0/4.0 (A)

- Currently pursuing part-time studies in the MSE-AI program, with a focus on AI and its applications in CS.

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

May 2023

University of British Columbia

CGPA: 3.9/4.0 (A)

## Experience

### Software Engineer

May 2024 - Present

Optum (part of UnitedHealth Group)

Vancouver, BC

- Leading the repository migration project to improve efficiency and security, by developing Python scripts for repo analysis and cleanup that preserve git history and remove potentially sensitive files like binaries, secrets, and executables.
- Designing and implementing components in Angular for a workflow management application by integrating RESTful API calls, and working on complex calculations/data transformations for performance optimization with C#, .NET.
- Developed 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 eliminating manual case assignment overhead for users.
- 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.

### Software Developer I

July 2023 – April 2024

Citi

Toronto, ON

- Worked 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.
- Built ensemble recommender systems for proactive financial insights, resulting in over 20% time savings for advisors.
- 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 performance metrics to Grafana thus reducing error diagnosis delay by over 50%.

## Projects

### SoccerNet | TypeScript (ExpressJS) / React / SQL / AWS / Python

- Designed a web application that provides detailed analysis of soccer games and players, allowing users to search, filter, and view comprehensive statistics through Rest APIs. Utilized Cloud SQL on AWS (RDS) and hosted using Render.

### myLaundry | 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, GCP, AWS, Container Systems.