Shashwat Regmi

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Education

Master of Science in Engineering (MSE) in Data Science — **Expected Aug 2025**
University of Pennsylvania — CGPA: 4.0/4.0 (A)
- Currently pursuing part-time studies in the 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**
- Developing 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.
- 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**
- 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.
- 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 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.