

Tanveer Brar

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EXPERIENCE

Software Developer Co-op | OceanMD September 2023 – December 2023, May 2024 - August 2024

- Implemented a revamped user interface for patient-provider messaging platform using **Vue.js**.
- Diagnosed and resolved critical bugs in open source Chrome extension, facilitating seamless integration with a leading EMR system.
- Built features for a full stack application in an Agile environment using **Java Spring Boot**.
- Developed comprehensive unit tests with **JUnit** and **Mockito**, driving a 20% increase in code coverage.

Software Developer Co-op | Rogers Communications January 2023 – August 2023

- Collaborated with a team of 10 professionals in an Agile environment to develop new features for an application for field technicians using **Java**, **React JS**, and **TypeScript**.
- Migrated 16 **SOAP** web services to **REST** for a legacy Java EE web application.
- Optimized web service performance during migration to REST, reducing response times.

Software Engineering Co-op | Tech Mahindra/Scotiabank May 2022 – August 2022

- Developed a robust validation tool using **Java Velocity Templates** to authenticate eight types of trade data against predefined formats, facilitating data compliance.
- Automated Google Cloud training update process for 200 employees by creating a Python-based emailing service to reduce manual communication effort.
- Acquired expertise in designing microservices architecture and leveraging Google Cloud Platform features through hands-on employee training.

EDUCATION

Bachelor of Software Engineering (Co-op) | McMaster University September 2020 - April 2025

- Recipient of McMaster President's Award.
- Relevant Courses: Data Structures & Algorithms, Linear Optimization, Concurrent Systems, Databases.

PROJECTS

Source Code Optimizer 

- Collaboratively developing a tool to identify and refactor energy-inefficient Python code patterns using Pylint, AST Parsing, and Rope, with potential for reinforcement learning optimization in future iterations.
- Implemented refactoring algorithms and evaluated their energy efficiency using CodeCarbon, while preserving functionality using automated unit tests.

SKILLS

Languages & Frameworks: Java, Python, Vue, React, JavaScript, Typescript, SQL, HTML, CSS

Tools: Tomcat, Ant Build Tool, GitHub, LaTeX, MongoDB, Docker

EXTRACURRICULAR ACTIVITIES

Designer | GDSC McMaster September 2021 – April 2022

- Collaboratively developed an application for roommates to communicate using **Express JS** and **PostgreSQL**.