

SAM QURESHI

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Education

George Brown College of Applied Arts and Technology

Jan. 2024 – April 2026

Advanced Diploma in Computer Programming & Analysis

Toronto, Ontario

Relevant Coursework

- Data Structures and Algorithms
- Web Development
- Database Management
- Application Development
- Computing Logic
- System Analysis
- Agile Development

Experience

Paulos Poetry

Aug 2024 - Nov 2024

Backend Developer

Toronto, Ontario

- Spearheaded the development and implementation of the complete backend including MongoDB and NodeJS.
- Enabled a 20% increase in poem submission speed through Express API optimizations
- Boosted content delivery efficiency by doubling performance by rewriting original site with new more flexible backend supporting faster content delivery

Rack-I

Feb 2023 - Aug 2023

Backend Developer

Toronto, Ontario

- Spearheaded the development of the backend infrastructure, utilizing NodeJS, Express, and MongoDB to enhance data retrieval speed by 30%.
- Collaborated with the front-end team to streamline the core application, reducing bugs by 20% through rigorous code reviews and testing.
- Led the account setup process for backend software, cutting deployment time by 25% and boosting security protocols.

Toronto Metropolitan University

Sept 2022 - April 2023

Hardware & Software Analyst Intern

Toronto, Ontario

- Played a crucial role in designing an internal database for managing sensitive information, cutting data entry errors by 15% via enhanced validation.
- Led the deployment of over 50 new devices, ensuring all hardware adhered to policy and compliance standards.
- Managed the secure decommissioning of outdated hardware, safely wiping over 100 devices, with zero security incidents.

Projects

HR Payroll GUI | Java, Eclipse, JavaFX

Nov 2024

- Designed a sample HR Payroll system using Java to simulate the common functions of using a HR System.
- Used JavaFX to create a GUI that supports actions such as creating an employee, logging hours, payroll, etc.
- Implemented object-oriented programming practices such as inheritance to create different account types and databases.

Pokedex | TypeScript, React, Axios, Tailwind CSS, Vite

Sep 2024

- Developed a modern Pokédex website to enhance API integration skills and frontend development expertise.
- Implemented advanced features, including cookie-based caching for seamless user experience, dynamic search functionality, and real-time data retrieval.
- Designed with a mobile-first approach, ensuring full PWA (Progressive Web App) support for offline access and smooth performance across all devices.

Red Programming Language | Java, IntelliJ

May 2022

- Engineered a highly efficient and lightweight interpreter to deeply explore fundamental and advanced concepts of interpreter design and programming languages.
- Implemented robust object-oriented principles, including inheritance and polymorphism, to create a flexible and extensible architecture.
- Designed and executed an extensive suite of over 100 rigorous test cases, ensuring exceptional reliability, correctness, and performance.

Technical Skills

Languages: Python, Java, C++, C#, Rust, TypeScript/JavaScript, SQL

Developer Tools: IntelliJ, XCode, Heroku, Oracle Cloud, EAS

Technologies/Frameworks: Linux, Jenkins, GitHub, JUnit, WordPress