Mian Rafay

Hamilton, ON

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Professional Summary

Aspiring software engineer intern with **75+ hours** of volunteering experience with the TDSB, proficiency in **optimizing, testing, debugging code** in various languages, and **practical SQL experience** through database courses, learning to create, optimize and modify databases.

Education

McMaster University	*Hamilton, ON*
Honours Bachelor of Applied Science in Computer Science (Co-op) - **CGPA: 3.80+**	*Sept 2021 - Present*

- **Recognized** on the Deans' Honour List for Academic Excellence

SATEC @ W.A. Porter Collegiate Institute	*Toronto, ON*
Ontario Secondary School Diploma (Specialized **STEM Program**)	*Sept 2017 - June 2021*

- Ontario Scholar Recipient

Amazon	*Hamilton, ON*
AWS Cloud Practitioner Essentials	*Present*
Udemy	*Remote*
Web Development Certification	*2020*

Relevant Courses

- Data Structures Algorithms
- Functional Programming
- Computer Architecture
- Scientific Programming
- Databases (Relational)
- Software Design Patterns
- Engineering Mathematics I/II
- Concurrent Systems

Skills

Programming	Java, Python, C#, C/C++, HTML5/CSS3, JavaScript, Swift, SQL, Haskell, Elm, Latex
Framework	Visual Studio, GitHub, Unity, PyCharm, IntelliJ, Linux/Unix, MML, AutoCAD, Arduino, MobaXterm, DBeaver, LTSA
Soft Skills	Teamwork, Problem-Solving, Time Management, Quick Learner
Additional	Standard First Aid + CPR Level C, G2 Driver's License

Experience

**Hack The North	Contestant**	*Remote*
	2021

- Designed and presented a custom-made password encryption program done using C++
- Program Stores **encrypted passwords on an SQL database**

**Ontario Tech University	Contestant**	*Oshawa, ON*
	Sept 2018 - June 2019

- The team leader of the robotics team and robotics competition finalist at the Ontario Tech University.
- Assembled and programmed an NXT robot to compete against teams present from schools throughout Toronto

**Scarborough Association for Mathematics Education	Contestant**	*Toronto, ON*
	Oct 2017

- **Selected representative** to represent the school in the Scarborough Math Olympics Contest after **achieving the highest grade throughout the school** on the 2017 Waterloo Math Test

Projects

RGB Guessing Game | Html, CSS, JavaScript

- Randomly generates a color code in the form RGB(x,y,z) and from 6 different colour choices given you must select the one which best fits the description.

Connect 4 | Java

- Implementation of connect 4 with incorporated artificial intelligence run by algorithms to decide the best possible move increasing chances of winning, uses of encapsulation, inheritance, and abstraction within relevant classes

Flappy Ninja | C#, Unity

- Remake of the famous Flappy Bird game, uses of game objects with animations using C#
- Random generated building objects, collision implementation, score tracker

Bingo | Visual Basic .NET

- Randomly generates numbers onto the bingo card and uses algorithms to find winners.
- Graphical user interface