





MIAN RAFAY

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PROFESSIONAL SUMMARY

A **creative, divergent** thinking **Software Engineer intern** with extensive expertise within **different** coding **languages**. Proceeding to my **seventh year** of passionate, robust coding involving the **creation** of **high-quality programs**. Holding the potent ability to effectively deliver and assist valuable solutions and developments to a hiring company. Prepared to **think outside** the **box** and strengthen the software community by **quickly** catching on and **adapting** to **new forms** of **intelligence** and the **latest technologies**. Currently pursuing an **Honors** Computer Science degree at **McMaster University**.

SKILLS

PROGRAMMING LANGUAGES: **Python, C++, C#, C, Java, JavaScript, HTML, CSS, PowerShell**

TECHNOLOGIES: **Word, PowerPoint, Excel, React.js, AutoCAD, Arduino, Windows**

SOFT SKILLS: **Critical Thinker, Problem Solver, Attentive Learner, Motivated, Enthusiastic, Detail Oriented, Organized**

EXTRACURRICULAR

HACK THE NORTH CONTESTANT {PASSWORD ENCRYPTER DATABASE} | **2021**

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

UTO ROBOTICS COMPETITION FINALIST | **2019**

Designed and **programmed** an **NXT** robot which qualified for the school team and competed at the **Ontario Tech University** for the robotics **competition**. Through **teamwork** and **hard work**, our team achieved a position in the **finals**.

SCARBOROUGH MATH OLYMPICS CONTESTANT | **2017**

Selected male **representative** from the school to participate in the **Math Olympics** after **achieving** the **highest grade** on the **Waterloo Math Contest**.

ED APP HACK | **2016**

Built a **prototype** of a **phone app** related to health and showcased it to **judges** at the event

PROJECTS

MATRIX CALCULATOR | **C++**

Computes **addition, subtraction, and multiplication** with **different order matrices** specified by the user

FUNCTIONS INTERSECTION CALCULATOR | **PYTHON**

Given two **functions** by the **user** as **input**, this program **calculates** the **intersection** point of the **two functions** within a certain interval.

USER PASSWORD AUTHENTICATOR | **C#**

Checks password **syntax** of **user** input to **authenticate** the **password** while **storing** all previous **passwords** on a **file**

MEMORY GAME | **C#**

Randomly generates cards with letters faced down and you must **match** all **pairs**

EXPERIENCE

HOME-BASED TUTOR | **2019 - PRESENT**

Tutoring students from grades 8 - 12 in subjects such as **math** and **computer science**.

ELECTIONS CANADA INFORMATION OFFICER | **2021**

Directed individuals to the voting **sites** and **answered questions** regarding elections

EDUCATION

BASc, HONORS COMPUTER SCIENCE (CO-OP) | **SEPT 2021 – PRESENT**
[MCMASTER UNIVERSITY](#)

HIGH SCHOOL DIPLOMA | **2021**
[SATEC @ WA PORTER CI](#)

WEB DEVELOPMENT BOOTCAMP | **2020**
[UDEMY](#)

RELEVANT COURSES

COMPSCI 1JC3

Worked with functional programming language, Haskell. Used [recursion](#), [pattern matching](#) and worked with [custom data types](#). Developed [critical thinking](#) skills through a wide range of [complex logic](#) problems.

COMPSCI 1MD3

Worked with [object-oriented](#) programming concepts in [Python](#). Familiarity with [SQL](#) databases, [YAML](#) files, and [JSON](#) files. Developed [problem solving](#) skills through series of problem questions involving [algorithms](#).

COMPSCI 1XD3

Implemented [design patterns](#) and learned [design techniques](#). Used elm and took part in [team assignments](#) to complete tasks in a [timely manner](#).