

MARC-OLIVIER FORTIN

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in marco-fortin

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PROJECTS

Compiler

UWaterloo - CS 241

- Built a compiler for a subset of the C++ language in C++
- **Scored 106%** on this final project
- Implemented all stages including Scanning, Parsing, Context Sensitive Analysis, Code Generation and Optimization
- **Ranked top 5** for best optimization in a class of **350+ students**

MindSpace

ConUHacks 2020

- Co-developed a simple workspace tool to **improve** self-reflection and work related stress
- Implemented **Shutterstock's API** to retrieve keyword images
- **Led** user-interface design and front-end development of the **Angular** application

Biquadris

UWaterloo - CS 246

- Co-developed the **Tetris** game with many additional features
- Implemented the program utilizing **object-oriented programming patterns** in C++
- **Scored 103%** on this final project by achieving all requirements and implementing **bonus** features

EXPERIENCE

AI Developer

Intact Financial Corporation

📅 Sep 2020 - Dec 2020 📍 Montreal, Canada

- **Independently** developed a **Spring Boot** application with a Vaadin framework to manage **Kafka** error messages produced by the team's services in **Java**
- **Restructured and developed** the team's testing frameworks and scripted tools to generate large testing data sets using **Python**
- **Mentored** teammates with less software development experience and ensured **best practices** were respected in testing software

Innovation & Design Developer

Via Rail Canada

📅 Jan 2020 - Apr 2020 📍 Montreal, Canada

- **Independently** developed multiple applications to facilitate on-board processes utilizing Microsoft's Power Platform, one which saved the company around **\$200,000** per day
- Interacted with **real time data** and managed **large databases** with **SQL Server** to develop the technologies
- Built **insightful scripts** including a quality trip tracking algorithm and security footage analysis using **JavaScript**, **Python** and **Microsoft's cloud-based Computer Vision**

SKILLS

Languages:

C++ C Java Python JavaScript
TypeScript SQL R Racket MIPS

Technologies:

Azure Docker Kubernetes Kafka
Sping Boot Bash Git Jira MS
Angular React Mac/Linux/Windows

EDUCATION

Candidate for Bachelor of Honours Computer Science

University of Waterloo

📅 2018 - 2023 📍 Waterloo, Ontario

- **GPA: 3.9/4**
- University of Waterloo Merit Scholarship
- Term Dean's Honours List

Natural Sciences - CEGEP

Collège Jean-de-Brébeuf

📅 2017-2018 📍 Montréal, Québec

- **R Score: 34.696**
- Calculus 1 for Honours Mathematics (**93%**)
- Calculus 2 for Honours Mathematics (**96%**)

LANGUAGES

English ●●●●●

French ●●●●●

Spanish ●●●●●

EXTRACURRICULARS

- University of Waterloo's **Fintech** club (2018-2019)
- University of Waterloo's **Blockchain** club (2018-2019)
- Won **1st** place, outdoor soccer provincial championship - Quebec
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