

# MARC-OLIVIER FORTIN

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in marco-fortin

marcofortin

marcofortin.github.io/personal-website

## 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

### Innovation & Design Developer

#### Via Rail Canada

📅 January 2020 - April 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

### Web Developer

#### Finlogik ( Canaccord Genuity Group Company )

📅 May 2019 – August 2019

📍 Montreal, Canada

- Codeveloped the front-end of an Angular based easy-to-use investment application for users to manage financial portfolios
- Independently developed a user-friendly administrative web application to maintain the previously developed software
- Both applications built improved the user experience with Finlogik's products and the speed of operations

## SKILLS

### Languages:

C++

C

Python

SQL

JavaScript

TypeScript

MIPS

R

Racket

### Technologies:

Azure

Docker

Kubernetes

Bash

Git

Jira

Mac

Linux

Windows

Angular

React

MS Power Platform

## 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

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## 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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