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

- 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

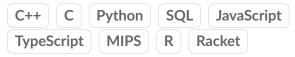
Finlogik (Canaccord Genuity Group Company)

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:



Technologies:

Azure		Oocker	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

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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