MARC-OLIVIER FORTIN

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PROJECTS

Watchlister

Marathon - Summer 2020

- Developed a Canadian stock watch list in **Python** to transmit real-time stock data
- Implemented the entire project while running a full **Marathon**
- Utilized SMTP to broadcast alerts through email and sms

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**

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

Software Developer

Squarepoint Capital

May 2021 - Aug 2021Montreal, Canada

- **Independently** developed ETL pipelines supporting quant trading strategies across global markets allowing over **$1M** in recurring revenue
- **Designed and developed** a file system client to standardize all file operations improving infrastructure and business visibility
- **Supported** real-time production issues across all global data engineering projects developed with **Python, PostgreSQL, Nomad and Bamboo**

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

SKILLS

Languages:

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

Technologies:

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

EDUCATION

Candidate for Bachelor of Honours Computer Science (Minor in Entrepreneurship)

University of Waterloo

2018 – 2023 Waterloo, Ontario

- **GPA: 3.92/4**
- 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

- **Peer Leader** in the Faculty of Mathematics at the University of Waterloo
- University of Waterloo's chapter **president** for Illuminate Universe
- Won **1st** place, outdoor soccer provincial championship - Quebec
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