Quentin FRUYTIER

BSc Candidate
McGILL UNIVERSITY

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Programming languages

Java
Python
C#
C
Matlab
Html and CSS
Windows & Linux Shell
Bourne Again Shell (Bash)

Languages

Bilingual French (native) and English

Skills

Computer building (hardware)
Advanced Excel
Jenkins
SVN
Jira
Microsoft Office Suite
Strong customer service skills

Interests

Artificial Intelligence
Data Analysis
Statistics
Finance

Education

McGill University • Joint Honours Math & Comp. Sci. • 3.63/4.00 GPA   expected 2021
Saint John High School • International Baccalaureate Diploma • High Honours   2017
Harvard University Summer School • General Chemistry • grade A   2016

Work Experience

Software Engineer Intern at Matrox   Summer 2019
Matrox Electronics Systems LTD. Software Quality Assurance   *Montreal, QC*

Worked with C# in Visual Studio to create, improve and fix automated tests for a product that encodes and sends images over a network to another product that displays it.

Teaching Assistant—Foundations of Programming (Python)   Fall 2019
McGill University Department of Computer Science   *Montreal, QC*

Graded, held office hours, prepared extra help—tutorials, problem sets, etc.

Team Mentor—Foundations of Programming (Java)   Winter 2019
McGill University Department of Computer Science   *Montreal, QC*

Answered student questions, held office hours, prepared extra help—tutorials, problem sets, etc.

Personal Projects

Geo-spatial analysis themed project • CodeJam 2018
Used clustering technique with the python library Sklearn to find busiest areas for taxis

Predicting Tourist Traffic at Visitor Center
Gathered past 5 years visitor data to predict traffic at visitor center.
Used **moving averages**, **weighted averages**, **exponential smoothing**, **holt smoothing** and experimented with **artificial neural networks** (2 hidden layers).

Computer hardware assembly and maintenance
Assembled my own Computer, and performed updates and maintenance.

Relevant Course Work

C Program (Working with .bmp files)   Oct. 2018
Created program that reads a .bmp image file, adds a filter (ex: snapchat filter) to the image and **centers it on a face**.

Java Program (decision trees)   Nov. 2018
Created program to construct a **Decision tree** made of data points, and used it to classify each of them (with a label) based on its 2D position.

Created code to **calculate the most optimal assortment** of points by calculating the **average entropy** of the assortments, and building a decision tree with each traversal leading to a leaf with the best label.

Awards

J W McConnell Scholarship   Mar 2017
McGill University Major Renewable Entrance Scholarship