
Work Experience

The Nielsen Company	Toronto, Canada	May 2019
<i>Software Developer</i>		Present

On the team responsible for developing the new core calculation engine in **C++**:

- Worked with the new code base which heavily used **Object-Oriented** programming, the Curiously Recurring Template Pattern, template classes and the Composite Design Pattern
 - Implemented a new printer class to uploads data to the database (using **SQL** in Sybase)
 - Used **Bitbucket**, **Bamboo** and **Jira** for source control, continuous integration/deployment and project tracking (respectively)
 - Developed C++ code both in **Windows** using **Visual Studio** and in **Linux**
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Scotiabank: Global Analytics & Financial Engineering	Toronto, Canada	January 2018
<i>Software Developer (Full Time Contractor)</i>		August 2018

Created a proprietary **Object-Oriented** data structure for trade entries in **Python**:

- Optimized the processing time of over one million trade entries by 400% by minimizing Input/Output to file while considering space, time and security trade-offs
- Used **Git** for reversion control and **Bitbucket** for team code review
- Assisted in technical screening of candidates

Developed additional portfolio functionality in **C++**:

- Added new portfolio function into IBM Algorithms One, an **Object-Oriented** enterprise software used for aggregating trade information
 - Implemented **Bash Shell** scripts to parse live market data for testing
 - Automated QA with **Perl** scripts for daily overnight regression testing
 - Composed company-wide memos detailing new portfolio functionality and usage
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Education

University of Waterloo (UW)	Waterloo, Canada	September 2015
<i>Bachelor's of Computer Science</i>		April 2019

Courses: Computer Networks, Artificial Intelligence, Distributed Systems, User Interface, Computational Math, Operating Systems, Algorithms, Linear Algebra II, Calculus III, Optimization

Athletics: UW Men's Varsity Rugby (four years)

Awards:

- UW Academic Honour Roll: Student Athlete 2017-2018
 - UW Men's Varsity Rugby: Most Improved Player 2017
 - UW Athletic Council: Student Athlete Award Fall 2016
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<i>Computer Science Tutor for Varsity Athletes:</i>	Fall 2017 & Fall 2018
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- Tutored varsity athletes in Object-Oriented Programming (CS246), Algebra (MATH135), Calculus I (MATH136), Data Structure (CS240)