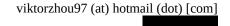
Viktor Zhou



Work Experience

The Nielsen CompanyToronto, CanadaMay 2019Software DeveloperPresent

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

Scotiabank: Global Analytics & Financial Engineering	Toronto, Canada	January 2018
Software Developer (Full Time Contractor)		August 2018

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

- Optimized the processing time of <u>over one million trade</u> entries by <u>400%</u> 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

Education

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

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

Computer Science Tutor for Varsity Athletes:

Fall 2017 & Fall 2018

 Tutored varsity athletes in Object-Oriented Programming (CS246), Algebra (MATH135), Calculus I (MATH136), Data Structure (CS240)