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Viktor Zhou

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Work Experience

The Nielsen Company <i>Software Developer</i>	Toronto, Canada	May 2019 Present
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Developing the new core calculation engine in C++:

- Developed C++ code with **OOP**, Template Classes, and the Composite Design Pattern
- Extensively worked with C++ **Smart Pointers**, C++ **STL** and C++ **Poco::JSON**
- Utilized **Python** to automate repetitive comparison between large files (RE, OS, GETOPT)
- Queried the Sybase database using **SQL** and investigated downstream **stored procedure**
- Worked in **Windows** using **Visual Studio** and in **Linux** using **Vim**, **g++** and **makefiles**
- Used **Bitbucket**, **Bamboo** and **Jira** for source control, CI/CD and project tracking

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

Education

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

<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)