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Viktor Zhou

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Work Experience

Nielsen Toronto, Canada May 2019
Software Developer *(present)*

Developing the new core calculation engine in **C**++:
- Worked with Object-Oriented code, class templates, Curiously Recurring Template Pattern
- Experienced with **C**++**11**: smart pointers, iterators, maps, STL algorithm, Poco::JSON
- Experienced with **C**++**14**: auto type deduction, lambda function
- Utilized **Python** to automate repetitive comparison between large files (RE, OS, GETOPT)
- Queried the Sybase database using **SQL** and investigated downstream **stored procedure**
- Developed in **Windows** using **Visual Studio** and in **Linux** using **Vim**, **GCC** and **makefiles**
- Used **Bitbucket**, **Bamboo** and **Jira** for source control, CI/CD and project tracking

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

Created a proprietary **Object-Oriented** data structure for trade entries in **Python**:
- Optimized the processing time of <u>one million trade</u> entries by <u>400%</u> by minimizing file I/O
- Used **Git** for reversion control and **Bitbucket** for team code review

Developed additional portfolio functionality in **C**++:
- Added new portfolio function into in-house **Object-Oriented** enterprise software
- Implemented **Bash Shell** scripts to retrieve archived market data for testing
- Automated QA with **Perl** scripts for daily overnight regression testing

Education

Georgia Institute of Technology August 2020
Master of Science, Computer Science (candidate) *(ongoing)*

- Matriculation fall 2020 with Computer Systems specialization

University of Waterloo (U.W.) June 2019
Bachelor of Mathematics, Honours Computer Science *(degree conferred)*

- <u>Courses</u>: Computer Networks, Artificial Intelligence, Distributed Systems, User Interface, Computational Math, Operating Systems, Algorithms, Lin Alg II, Calc III, Optimization
- <u>Computer Science Tutor for S.A. (Fall 2017 & Fall 2018):</u> Object-Oriented Software Development (CS246), Data Structure (CS240), Algebra (MATH135), Calculus I (MATH136)
- <u>Awards</u>: U.W. Academic Honour Roll S.A. 2017, U.W. Athletic Council: S.A. Award 2016
- <u>Student Athlete (S.A.)</u>: UW Men's Varsity Rugby (4 years)

Projects

Google Hashcode 2020 Qualifier February 2020

- Implemented Monte Carlo (randomized) algorithm and greedy scheduling algorithms
- International ranking: 2288/10724, Canadian ranking: 40th