Brad Guanqiao Huang

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Qualification and Skills Summary
- Honours Computer Science Co-op Student at the **University of Waterloo**, Class of 2022
- **Fast learner** with extensive knowledge of OOP concepts and **agile development** methodology
- 3 years of **Java developing** experience through 6+ projects
- **Full-stack** web developer proficient in front-end webpage designs and back-end software implementation
- Effective team member with excellent **communication skills** through 4 years of volunteer experience
- PROFICIENT IN: Java (Swing, JavaFX), HTML5, CSS, Lisp/Scheme, Visual Basic (VBA), QBasic
- FAMILIAR WITH: C, C++, Python, R, PHP, JavaScript, Node.js, React.js, AngularJS, Haskell, SQL, Linux, Git

Professional Experience
WEB DEVELOPER | RICHMOND HILL HIGH SCHOOL | HTML5, CSS, PHP, WORDPRESS | 2017
- Selected to revamp the homework website for the RHHS math department using HTML5, CSS, and WordPress
- In later cycles of development, developed an easy-to-use backend maintenance system for the website using PHP to streamline the process of announcements and updates for users
- Consulted on the designs of teachers' own homework websites

SOFTWARE DEVELOPER | TAOTAO GROUP LIMITED | PHP, WORDPRESS, webERP | 2016
- Worked in a team to test and implement webERP, a backend management/inventory software
- Redesigned and translated the company's website to promote viewer traffic and sales
- Built advertising website for the new logistics/transportation department using HTML5, CSS, and WordPress

Notable Assignments and Projects
BATTLE TETROMINO | JAVA, PYTHON | 2017 – PRESENT | github.com/Bradhuang1999/Battle-Tetromino
- Led a team of four to design a Tetris game with single player, double player, human vs. computer, and online modes using Java and Python
- Developed an automated game-playing algorithm based on four heuristics of the Tetris gameboard pattern
- Currently implementing machine learning using TensorFlow to improve the algorithm

ChatServ | JAVA | 2017 – PRESENT | github.com/BradHuang1999/ChatServ
- Developed a desktop messenger software for users to communicate remotely using Agile development practices
- Worked in team of three to design a Graphical User Interface using Swing to improve user experience
- Currently working on implementing an RSA message encryption system to prevent data breach

Volunteer Experience
TUTOR | LEARNING DISABILITIES ASSOCIATION OF YORK REGION | 2016 – 2017
- Instructed math, writing, and social skills to elementary school students with learning disabilities
- Consulted with parents in regard to students' progress to ensure effective learning experience

PRESENTER AND TOUR GUIDE | DAVID DUNLAP OBSERVATORY | 2014 – 2017
- Gave tours of the observatory and presentations on observational astronomy
- Showcased leadership and communication skills by training and supervising other volunteers

Personal Interests
- Astronomical Observing, Music (Piano and Clarinet), Android ROM Flashing, Photography, Kayaking, Skiing