Qi Shu

2B Honours Computer Science and Business Administration Double Degree
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Summary of Qualifications

- Experienced in website development, web-based data visualization and graphics
- Exceptional in learning and analyzing, with excellent teamwork and communication skills

Skills

- Programming Languages: Proficient in C++/C, Java, Scheme, JavaScript, HTML, CSS; Familiar with Bash, Python, SQL, VBA
- Library/Framework: jQuery, WebGL, Three.js, d3.js, Highcharts.js, Bootstrap, AngularJS, React
- Operating System: Linux/Unix, Windows, Mac, iOS and Android

Work Experience

Web Developer   *Ontario Investment Office*   Jan 2018- Present
- Visualizing relevant data on office website in an interactive way using d3.js and highchart.js libraries
- Creating JavaScript widgets such as a responsive table of content for office website to improve its functionality and user experience
- Designing web-based graphics with WebGL and Three.js to enhance user interface

Teaching Assistant   *Math Faculty of the University of Waterloo*   Sep 2017- Dec 2017
- Marked weekly assignments and tests, and provide feedbacks to students
- Enhanced teamwork skills through group communication to ensure assignments were marked fairly

Notable Projects

3D Interactive Earth
- Built a WebGL-based 3D Earth Model displaying Ontario's investment connections with the world
- Developed clickable CSS-based 2D location points to follow 3D Earth movement pattern with 3D projectiles connecting points to showcase Ontario's investment relations with other countries.

Tetris Game
- Established the Tetris game with C++ as a class project and attained a score of 99.8%
- Adopted Obeserver, Model-View-Controller and Template Method Design Patterns

Sunburst Visualization
- Built a responsive sunburst diagram based on JavaScript, which extracts data from HTML tables and renders through d3.js

Test Automation
- Developed test automation based on Bash shell scripting to test codes written in C++ for schoolwork

Awards

1st place in Women Empowerment Category in Equithon   May 5th 2017 – May 7th 2017
- Built website-based platform iCare, which tackles childcare problems using HTML, CSS, Bootstrap
- Established a HTML widget with input boxes which can display, store and process information

Education

University of Waterloo, Waterloo, ON   Sep 2016- Present
- 2B Honours Computer Science and Business Administration Double Degree, Co-op Program