

# Joyce Ji

3A Computer Science – University of Waterloo

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## COMPUTER PROFICIENCY

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- Programming Languages: C, C++, Java, Python, Scheme, MIPS, Bash Script
- Web Development: HTML/CSS, JavaScript (jQuery), AngularJS
- Environment and Tools: Matlab, R, ~~TeX~~ LaTeX, Eclipse, Visual Studio
- Advanced understanding of algorithms and data structures gained in academic courses
- Solid foundation of object-oriented programming and functional programming

## WORK EXPERIENCE

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### Validus Research Inc

May 2015–August 2015

*Application Developer*

Waterloo, ON

- Implemented the front-end of a project independently which allows users to create, store, and continue working on analyses; Designed a user-friendly UI for the project with JavaScript libraries like Bootstrap
- Designed a web page with Excel-like tables using Handsontable library
- Added new features and fixed bugs for front-end

### Good Technology

August 2014–December 2014

*Quality Assurance Analyst*

Toronto, ON

- Implemented an automation testing program in Java which interacts with TestRail and Good's Mobile Device Management Server to perform end-to end tests automatically
- Developed a tool with GUI which allows testers to make a large number of test cases on TestRail quickly
- Performed end-to-end testing on Android and iOS devices; fired and verified tickets on JIRA

## RESEARCH

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### Resident Database manager

September 2015–Present

*Undergrad Research Assistant*

- Working with Professor Grant Weddell to develop Resident Database Manager (RDM), a tool set which allows developers to declaratively specify objects and operations on them using a SQL-like language to generate an embedded main-memory database in C

## PROJECTS

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### WLP4 Compiler | C++ | March 2015

- Implemented a full compiler that scans and parses WLP4 language and generates MIPS assembly code

### The Quadris | C++ | July 2014

- Developed an object-oriented game similar to the Tetris with full text and graphical display with a partner

### The Pacman Game | Python | July 2014

- Developed the game with GUI in python; designed an shortest path algorithm for chasing the player

## EDUCATION

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### University of Waterloo | Candidate for Bachelor of Mathematics

September 2013–Present

*3A Computer Science and Financial Analysis & Risk Management double major*

- Term Deans Honours List - Winter 2015
- University of Waterloo President's Scholarship — September 2013
- UW Alumni at Microsoft Entrance Scholarship in Mathematics — September 2013