

# Shen Jin

(416)-262-7782  
s29jin@uwaterloo.ca

<https://github.com/SJ119/Projects>

119 Michelle Drive  
Woodbridge ON, L4L 9N3

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## LIST OF QUALIFICATIONS

- Familiar with imperative, functional and object-oriented programming
- Committed to learn and develop new skills
- Very organized, able to complete tasks ahead of time efficiently
- Excellent interpersonal, verbal, and written skills
- Team player, detail-oriented, and responsible

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## COMPUTER SKILLS

- Experienced with Scheme, C, Turing, and JavaScript
- Familiar with Python, Java, HTML5, CSS3, PHP, jQuery, and bash (command line)
- Working knowledge of graphs, trees, recursion, algorithms, and data structures
- Understands PhotoshopCS6, DreamweaverCS6, SSH, and AutoCAD

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## REVELANT PROJECTS

### Self Website, HTML5 CSS3 JavaScript jQuery February 2014

- Implemented website with jQuery effects, such as animate, delay, and fade
- Used HTML5 and CSS3 standards to make a functional website portfolio

### Game Development Project, Turing January 2014

- Used Turing to create an arcade style game that implemented modularization
- Integrated gif, jpg, and mp3 files within the program in addition to GUI features
- Used PhotoshopCS6 to design and create unique pictures for my game

### Knight's Tour, Racket/Scheme January 2014

- Algorithm that ensures the Knight on a board will visit every square once
- Implemented Warnsdorff's Rule, a heuristic to increase efficiency
- Related graphs and algorithms to create a method to solve a board of any size

### UW-API, Racket/Scheme January 2014

- Created a function that displays a students schedule and course related data
- Designed a process that lists the campus food in order of lowest fat content

### Encoding Tree Compression, Racket/Scheme November 2013

- Extended knowledge of trees by using encoding tree rather than BST
- Designed algorithm to find compression ratio of variable and fixed length trees

### Basement Renovation Project, AutoCAD June 2012

- Surveyed basement dimensions to optimize space
- Designed detailed basement renovation layout with AutoCAD

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## LEADERSHIP EXPERIENCE

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|---|-----------------------------|
| <b>University of Waterloo Math Society representative</b>   | <b>September 2013 –</b>     |
| <ul style="list-style-type: none"><li>• Elected computer science representative for Math SOC fall 2A term</li></ul>           |                             |
| <b>Computer Science Club</b>  | <b>January 2014 –</b>       |
| <ul style="list-style-type: none"><li>• Member of CSC, volunteers frequently on club events</li></ul>                         |                             |
| <b>Math orientation developer</b>   | <b>January 2014 –</b>       |
| <ul style="list-style-type: none"><li>• Candidate for MOD position, will create events for first year math students</li></ul> |                             |
| <b>Senior home caregiver (Elspeth Heyworth Centre)</b>  | <b>July 2011 – May 2012</b> |
| <ul style="list-style-type: none"><li>• Taught seniors to use the internet, email, and Microsoft Word</li></ul>               |                             |

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## EDUCATION

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|--|-------------------------|
| <b>University of Waterloo</b>  | <b>September 2013 –</b> |
| <ul style="list-style-type: none"><li>• Honours Computer Science, Business Option (1B term)</li><li>• President's Scholarship</li></ul>                  |                         |
| <b>Professional Development</b>  | <b>January 2014 –</b>   |
| <ul style="list-style-type: none"><li>• Enrolled in online Java programming course</li><li>• Developing object oriented programming techniques</li></ul> |                         |
| <b>The Algorithm Design Manual – Steven Skiena</b>   | <b>December 2013 –</b>  |
| <ul style="list-style-type: none"><li>• Learning various algorithms and analyzing their efficiency</li></ul>   |                         |

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## INTERESTS

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- Reads blogs regarding consumer electronics and gadgets
- Open sources projects on GitHub
- Website design
- Plays League of Legends
- Loves playing and watching sports
- Part of University of Waterloo Dragon Boat Club