

## EDUCATION

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### UNIVERSITY OF WATERLOO

Waterloo, ON

#### Bachelor of Mathematics: Major in Applied Math(with Engineering Option in Communication and Control)

- *Academics:* A in Algebra, Calculus 1, Mechanics. B+ in Calculus 2 and Computer Science 1
- *Honors:* University of Waterloo's President's Scholarship, Faculty of Mathematics Entrance Scholarship.
- *Leadership:* A in Public Speaking.
- *Notable Courses:* Mechanics, Electrical Engineering(Circuits), Calculus 1 and 2, Computer Science 1 and 2

## EXPERIENCE

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### PICKERING READING CIRCLES

Pickering, ON

*Senior Volunteer and Former Member of Board of Directors*

Apr 2013 – Mar 2016

- Helped start the *Math Circles* portion of the program.
- Designed and implemented a curriculum for kids in grades 6 through 8. Taught kids various concepts as well as discuss their progress with their parents.
- Oversaw the education of around 29 kids, with the help of 10 others, during peak months.
- Recruited over 19 volunteers during a 2-year period.

### PINE RIDGE SECONDARY SCHOOL

Pickering, ON

*Co-Founder of Math Club and Physics Club*

Mar 2014 – Jun 2015

- Helped fellow students understand difficult concepts in Math and Physics
- Helped 7 students prepare for Math and Physics contests taken place at the end of the school year.
- Tutored 7 kids during peak days of the week.

## PROJECTS

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### PONG

- Coded the classic pong game in JavaScript using the HTML canvas
- The computer paddle uses a follower algorithm to play the game

### BRICK BREAKER

- Similarly, built my own version of Brick Breaker in JavaScript using the HTML canvas
- Utilized arrays to build and randomize all the colors of the bricks

### PERSONAL WEBSITE

- Created a personal website using HTML, CSS and Bootstrap. In previous versions, I have used animate.css

### TRAFFIC LIGHT DETECTION

- Currently working with the Robotics Club to develop an algorithm that will recognize traffic lights and will tell our autonomous car when to start the race.
- Will eventually learn ROS to do other tasks.

## ADDITIONAL INFORMATION

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I have been accepted to the Velocity Residence at the University of Waterloo. As a result, I will get an opportunity to work with students who are trying to establish a start-up. Thus, I will gain more experience in the coming months.

Familiar with and Currently Learning: C++, C, Racket, HTML, JavaScript, CSS, Node.js

My 2A(3<sup>rd</sup> semester) courses are: Logic and Computation, Linear Algebra 2, Calculus 3, Signals and Systems(ECE), Intro to Differential Equations