**MANAS JOSHI**

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**EDUCATION**

**UNIVERSITY OF WATERLOO** **Waterloo, ON**

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

* *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**

**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**

**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**

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

Java, Python, Angular JS, Haskell, Git, Julia, Cobol

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