**MANAS JOSHI**

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**Github:** manas-joshi-uw

**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, Electrical Engineering(Circuits). GPA: 100/100
* *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.
* 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**

**BRICK BREAKER**

* 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.
* This project was my introduction to JavaScript and its various features.

**PERSONAL WEBSITE**

* Created a personal website using HTML, CSS and Bootstrap. In previous versions, I have used animate.css.
* Included a Pong game I made in JavaScript using the HTML canvas.

**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.
* This project gave me an introduction to MATLAB and image processing.
* Will eventually learn ROS to do other tasks.

**FITBOT- MESSENGER BOT**

* Worked with a team in making a personal gym assistant through the Facebook Messenger Bot.
* Used Google Places API to implement a feature that would message the user to go to the gym if it detected he/she was not at the gym. Feature was not implemented in the end as current coordinates of user could not be found using the API.
* Implementing a “Workout” feature that allows a user to add workouts, modify workouts and be able to see all of their workouts. Each “Workout” was stored as an object.

**ADDITIONAL INFORMATION**

I have been accepted to a leading Entrepreneurship program(Velocity) at the University of Waterloo. As a result, I will get an opportunity to work with students on various projects and 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 courses are: Logic and Computation, Linear Algebra 2, Calculus 3, Signals and Systems(ECE), Intro to Differential Equations.