

# MANAS JOSHI

2A Applied Mathematics

[github.com/Manas-Joshi-UW](https://github.com/Manas-Joshi-UW)

[mvjoshi@uwaterloo.ca](mailto:mvjoshi@uwaterloo.ca)

[Manas-Joshi-UW.github.io](https://Manas-Joshi-UW.github.io)

## SUMMARY OF QUALIFICATIONS

---

- Frontend (HTML, CSS, JS) web developer and presently learning backend(Node.js).
- Familiar with and currently learning: Scheme, C++, C and Java.
- Enrolled in a leading entrepreneurship program, Velocity, at the University of Waterloo.
- Diverse skillset developed through taking courses in Mathematics, Computer Science and Electrical and Computer Engineering.
- Strong communications skills developed through 3 years as a Math instructor/peer tutor.

## PROJECTS

---

### FITBOT- MESSENGER BOT

- Worked with a team in making a personal gym assistant through the Facebook Messenger Bot.
- Used Google Places API to tell the user which local Goodlife gyms were open and their respective ratings.
- Implementing a “Workout” feature that allows a user to add, modify and print all of their workouts.
- Learned more about Node.js, using API’s and Chatbots.

### BRICK BREAKER

- Programmed my own version of Brick Breaker in JavaScript using the HTML canvas.
- Utilized arrays to build the bricks and randomize their colors.
- Used timing events to fix bugs in the physics of the game.

### TRAFFIC LIGHT DETECTION

- Working with the Robotics Club to develop an algorithm that will recognize green lights and tell an autonomous car to start the race.
- Learning MATLAB and image-processing.

## EDUCATION

---

### UNIVERSITY OF WATERLOO

Waterloo, ON

**Intended Major:** Applied Mathematics with an option in Engineering (Communication and Control) and Computer Science.

## EXPERIENCE

---

### PICKERING READING CIRCLES

Apr 2013 – Mar 2016

Pickering, ON

*Senior Volunteer and Former Member of Board of Directors*

- Orchestrated and built 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 and guided 10 volunteers during peak months.
- Recruited over 19 volunteers during a 2-year period.

### PINE RIDGE SECONDARY SCHOOL

Mar 2014 – Jun 2015

Pickering, ON

*Co-Founder of Math Club and Physics Club*

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