

# Kavin Satheeskumar

<https://kavinsatheeskumar.github.io/Sideprojects/>

## SUMMARY OF QUALIFICATIONS

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**Software** – Experienced with Python, Racket (a dialect of lisp), Java, HTML, CSS, JavaScript, back-end web development, Git, C and R

**Finance** – Competed in DECA and took Introduction to Financial Accounting

**Teamwork and Leadership** – Developed software with the Waterloo Rocketry design team, held leadership roles in Western University and City of London day camps

**Second Language** - French

## EDUCATION

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**University of Waterloo** - Candidate for Bachelor of Computer Science, Honours Co-op, *September 2020*  
term one average 93.4 or 4.0 GPA *- present*

## AWARDS AND ACHIEVEMENTS

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**Math Kangaroo** - Certificate of excellence, London regional 2<sup>nd</sup> place *2020, 2019 & 2018*  
2019 & 2018, contest unofficial in 2020

**ECOO team programing Contest** - 1<sup>st</sup> in regional and 5<sup>th</sup> in province *2019*

**Canadian Senior Mathematics Contest** - Top 1% of contest writers *2018*

**Canada Wide National Science Fair** - Award of Excellence, Bronze medal, and *2018*  
Entrance Scholarship to Western University

**Certificates of Distinction** – Received 17 for various academic competitions *2020 - 2016*

## SIDE PROJECTS

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**Basic Neural Network** - Implementation of multilayer perceptron with back propagation learning *July 2020 - present*

- Implemented without the use of any external libraries like NumPy or TensorFlow.
- Capable of training a neural network to do various simple tasks like evaluating the exclusive-or function or calculating the square of the sine of a number.

**Kuriushacks hackathon, Christmas Edition** – 2<sup>nd</sup> place *December 2020*

- Developed a web-based game with Python and Flask
- Equipped with an updating leader board stored in a database

## WORK EXPERIENCE

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**Junior Instructor** - Discovery Western Day Camp, Western University *Summer 2019*

- Taught up to 25 children a variety of topics, including the use of Arduinos and other simple electronics. Responsible for the safety of children throughout camp hours and ensured that they engaged with content and activities.

**Day Camp Counsellor** - City of London *Summer 2018*

- Planned activities and supervised up to 12 children. Ensured the health and safety of the children during various field trips throughout the city.
- Wrote injury & behaviour reports, and daily logs.

## CLUBS AND OTHER INTEREST

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- Waterloo Rocketry Design Team
  - Developed and updated software with a team using Git
- Piano – Completed RCM Level 8 (1<sup>st</sup> Class Honours), Swimming and Rock Climbing