

# KunalChandan

Computer Engineering Student

## About

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## Languages

Bilingual English &  
Hindi  
Limited French

## Programming

Java  
Python  
OpenCV-  
Octave/MATLAB  
PsychToolbox-  
HTML & JavaScript  
LaTeX

## Interests

I take heavy interest in computer science, mainly in statistical analysis and machine learning. I first learned to program with Java in 2015, since then I have been improving my skills now I have some experience with Keras, Octave, and OpenCV. I also lead Northview's FIRST robotics team and the programming team.

## Education

- 2018–2023 **Expected Computer Engineering Degree** University of Waterloo  
Honours Computer Engineering Co-op. Starting September of 2018
- 2014–2018 **Ontario Secondary School Diploma** Northview Heights Secondary School  
Specialist High Skills Major; Information Computer Tech. (SHSM - ICT)  
Honours in Math, Science and Technology (HMST)

## Experience

- July '17–Curr. **Elder Lab, York University** Research Internship.  
*Computer Vision, Machine Learning, and Psychophysics*  
-Learning to design neural networks for application in various projects i.e. Traffic tracking, hockey puck tracking  
-Writing machine learning algorithms in Java, and Python using Keras and Tensorflow  
-Writing scripts using Python and OpenCV for data augmentation and various libraries for data visualization and interpretation  
-MATLAB and PsychToolbox for designing psychophysics experiments  
-Designing methods to gather crowd-sourced data with Amazon MTurk
- July–Aug '17 **Camp NAORCA, City of Toronto** Camp Counsellor.  
*Voted Rookie of the year*; outdoor youth summer camp
- 2017-2018 **FIRST Team 6632, Supreme Robotics** Build Executive  
Lead and coordinated Supreme Robotics' build team
- Jan '18 **Northview Heights Secondary School** Lead Programming Mentor  
Mentored Northview's Co-Ed and All-girls programming teams
- 2016-2018 **Private Tutoring** Math & Science Tutor  
Tutored children in math and science at local libraries.

## Applications

- 2017–Curr. **Personal Website** kunalchandan.github.io  
Various JavaScript applets, web-toys, and 3D Rendering done with Blender
- 2017–Curr. **Various Psychophysics Experiments** Research Internship related work  
Designed and programmed psychophysics experiments similar to current research in the Elder Lab

## Other Extra-Curriculars

- 2014–Curr.    **Academic Clubs**
- Programming Club Founder
  - Biology Club Executive
  - Physics Club Member
  - Math Team Member
  - DECA Chapter Executive
  - SHSM-ICT President
  - FIRST Robotics Build Executive
- 2014–Curr.    **Sports Clubs**
- Cross Country Coach/Member
  - Badminton Member
  - Water Polo Member
  - Track & Field Coach/Member

## Awards

- 2014–Curr.    **Academic Awards**
- Co-op Award for Outstanding Achievement - Grade 12
  - Business Award - Grade 9 & 10
  - Honour Roll - All Semesters
  - University of Toronto National Biology Competition Scholar Award - Grade 12
  - CCC Junior 1st place Northview - Grade 11
  - ECOO Round 2 Finalist - Grade 11
  - Toronto Finalist for Office Skills Competition - Grade 10
  - Toronto Finalist for Robotics and Control Systems - Grade 11
- 2014–Curr.    **Athletic Awards**
- Bronze Medallion for TDSSAA - Cross Country
  - Silver Medallion for TDSSAA - Track & Field