

# KunalChandan

Computer Engineering Student

## About

kunalthechandan@  
-gmail.com  
kunalchandan.github.io  
Cell: (647)-785-1313

## Languages

Bilingual English &  
Hindi  
Professional French

## Programming

Java  
LWJGL-  
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.

## Education

- |           |   |                                    |
|-----------|---|------------------------------------|
| 2018–2023 | <b>Expected Computer Engineering Degree</b>                           | University of Waterloo             |
|           | Honours Computer Engineering Co-op. Starting September of 2018        |                                    |
| 2014–2018 | <b>Ontario Secondary School Diploma</b>                               | Northview Heights Secondary School |
|           | Specialist High Skills Major; Information Computer Tech. (SHSM - ICT) |                                    |
|           | Honours in Math, Science and Technology (HMST)                        |                                    |
|           | Jim McQueen Award for Excellence in Education                         |                                    |

## Experience

- |           |  |                         |
|-----------|--|-------------------------|
| 2017-2018 | <b>Elder Lab, York University</b>  | Research Internship.    |
|           | <i>Computer Vision, Machine Learning, and Psychophysics</i>                        |                         |
|           | -Learning to design neural networks for application i.e. Traffic tracking          |                         |
|           | -Creating psychophysics experiments using MATLAB with PsychToolbox                 |                         |
|           | -Data augmentation, visualization, interpretation using Python, OpenCV, Matplotlib |                         |
|           | -Designing methods to gather Mechanical Turk data                                  |                         |
| 2017      | <b>Camp NAORCA, City of Toronto</b>  | Camp Counsellor.        |
|           | Voted <i>Rookie of the year</i> ; outdoor youth summer camp                        |                         |
| 2017-2018 | <b>FIRST Team 6632, Supreme Robotics</b>   | Build Executive         |
|           | Lead and coordinated Supreme Robotics' build team                                  |                         |
| 2018      | <b>Northview Heights Secondary School</b>  | Lead Programming Mentor |
|           | Mentored Northview's Co-Ed and All-girls programming teams                         |                         |
| 2016-2018 | <b>Private Tutoring</b>  | Math & Science Tutor    |
|           | Tutored children in math and science at local libraries.                           |                         |

## Projects

- |            |   |                                  |
|------------|---|----------------------------------|
| 2017–Curr. | <b>Github</b>   | github.com/kunalchandan          |
|            | Personal programming projects, highlights include:  |                                  |
|            | -Game Engine written from scratch using OpenGL Java bindings (LWJGL)  |                                  |
|            | -Multi-expression Command Line Calculator   |                                  |
|            | -Solutions to programming contests  |                                  |
|            | -Resume Written in LaTeX  |                                  |
| 2017–Curr. | <b>Personal Website</b>   | kunalchandan.github.io           |
|            | Various JavaScript applets, web-toys, and 3D Modeling/Rendering   |                                  |
| 2017–Curr. | <b>Psychophysics Experiments</b>  | Research internship related work |
|            | Designed and implemented psychophysics experiments similar to current research in the Elder Lab to test propagation of visual information in the brain. |                                  |

## Other Extra-Curriculars

- 2014–2018    **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

- 2014–2018    **Academic Awards**
- Jim McQueen Award for Excellence in Education
  - 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
- 2014–2018    **Athletic Awards**
- Bronze Medallion for TDSSAA - Cross Country
  - Silver Medallion for TDSSAA - Track & Field