

# Kunal Chandan

1A Computer Engineering Candidate

kunalchandan.github.io  
kchandan@uwaterloo.ca

647-785-1313

github.com/kunalchandan  
linkedin.com/in/kunal-chandan

## LANGUAGES

- Java
  - LWJGL
- Python
  - OpenCV
  - Selenium
  - Pandas
  - Matplotlib
- Octave/MATLAB
  - PsychToolbox
- HTML & JavaScript
  - P5.js
- LaTeX & XeLaTeX
  - Tikz

## SKILLS

- Linux
- Unix System Admin.
- Git
- Research
- QA
- SEO
- Web Analytics

## CLUBS

2018 Engineering Society Rep.  
2018 U Waterloo Robotics Team  
2018 FIRST Robotics Engineering Lead  
2017 Programming Club Founder  
2017 DECA Chapter Executive

## EDUCATION

**UNIVERSITY OF WATERLOO**  
**B.ASC COMPUTER ENGINEERING**  
**CANDIDATE**

## SUMMARY OF QUALIFICATIONS

- 4 years of programming experience in **Java**
- Extensive experience with **Linux** operating systems
- Strong **leadership** experience exemplified through various executive positions
- Excellent **AI research** experience from prior internships at **York U & Kindred.ai**

## EXPERIENCE

### RESEARCH INTERN | ELDER LAB, YORK UNIVERSITY

June 2017 - June 2018 | Toronto, ON

- Computer Vision, Machine Learning, and Psychophysics
- Created 2 novel **psychophysics** experiments using **MATLAB** with **PsychToolbox**
- Conducted data augmentation, **visualization**, interpretation using **Python**, **OpenCV**, **Matplotlib** for experimental data
- Designing methods to gather data using **Amazon Mechanical Turk**

### ROBOT PILOT | KINDRED.AI

June 2018 - July 2018 | Toronto, ON

- Piloted in-production Robots & conducted **QA** and **testing** of 3 new robots
- Made hardware modifications for **AI research** and **control system optimization**

### ENGINEERING LEAD | FIRST TEAM 6632, SUPREME ROBOTICS

Sept. 2017 - June 2018 | Toronto, ON

- Lead and coordinated Supreme Robotics' build team
- Designed and programmed **autonomous** robot mode

### LEAD MENTOR | NORTHVIEW HEIGHTS SECONDARY SCHOOL

Jan. 2018 - March 2018 | Toronto, ON

- Mentored Northview's Co-Ed and All-girls programming teams
- Taught file & user IO, recursion, **graph theory** and **procedural programming**

## PROJECTS

### GITHUB.COM/KUNALCHANDAN

Personal programming projects, highlights include:

- **Game Engine** written from scratch using **OpenGL Java bindings** (LWJGL)
- Multi-expression Command Line Calculator
- Resume written with **XeLaTeX**
- **Webcrawlers** for data collection from various websites environments.

### PERSONAL WEBSITE | KUNALCHANDAN.GITHUB.IO

- Various JavaScript applets, web-toys, and 3D Modeling/Rendering

## AWARDS

2018 Jim McQueen Award For Excellence in Education  
2018 Co-op Award for Outstanding Achievement  
2018 University of Toronto National Biology Competition Scholar Award  
2017 Canadian Computing Competition 1st Northview  
2017 Educational Computing Organization of Ontario Round 2 Finalist  
2017 Toronto Finalist for Robotics and Control Systems