

KunalChandan

Computer Engineering Candidate

Experience

June 2017 - June 2018

About

Research Intern

Elder Lab, York University

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

June 2018 - July 2018

Robot Pilot

Kindred.ai

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

Sept. 2017 - June 2018

Engineering Lead

FIRST Team 6632, Supreme Robotics

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

Jan. 2018 - March 2018

Lead Mentor

Northview Heights Secondary School

- Mentored Northview's Co-Ed and All-girls programming teams

Projects

Aug. 2017 - Current

Github

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 **XeLaTeX**
- Webcrawlers** for data collection from various websites

Aug. 2017 - Current

Personal Website

kunalchandan.github.io

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

June 2017 - June 2018

Psychophysics Experiments

- Recreated current leading research in **Psychophysics** by Dr. K Ehinger & Dr. J Elder
- Written with **Octave & MATLAB** using **PsychToolbox**
- Complete **statistical analysis** of human subjects and collected data

Clubs

2014-2018

- University of Waterloo Robotics Team
- Programming Club Founder
- DECA Chapter Executive
- FIRST Robotics Build Executive

Awards

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Languages

Fluent English & Hindi
Professional French

Skills

Java

LWJGL

Python

OpenCV

Selenium

Pandas

MatPlotLib

Octave/MATLAB

PsychToolbox-

HTML & JavaScript

P5.js

LaTeX & XeLaTeX

Tikz

2014–2018**Academic Awards**

- Co-op Award for Outstanding Achievement
- Honour Roll - All Semesters
- University of Toronto National Biology Competition Scholar Award
- Canadian Computing Competition 1st Northview
- Educational Computing Organization of Ontario Round 2 Finalist
- Toronto Finalist for Robotics and Control Systems