Kunal Chandan

Computer Engineering Candidate

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LANGUAGES

- Java
  - LWJGL
- Python
  - OpenCV
  - Selenium
  - Pandas
  - MatPlotLib
  - Numpy
- Octave/MATLAB
  - PsychToolbox
- HTML & JavaScript
  - P5.js
- LaTeX & XeLaTeX
  - Tikz
- SQL
- C/C++

SKILLS

- Altium
- Clickup
- Linux
- Unix System Admin.
- Git
- Research
- QA
- SEO
- Web Analytics
- Database Management

CLUBS

2018	Engineering Society Rep.
2018	Waterloop Electrical Member
2018	FIRST Robotics Engineering Lead
2017	Programming Club Founder
2017	DECA Chapter Executive

SUMMARY OF QUALIFICATIONS

- 4 years of programming experience in **Java**
- Extensive experience with **Linux** operating systems
- Strong **leadership** experince exemplified through varous 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**

QA TESTER | Kindred.ai
June 2018 - July 2018 | Toronto, ON

- Piloted production robots & conducted **QA**/**testing** of 3 new robots with **Asana**
- 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 78th in Canada
2017	Canadian Computing Competition 1st Northview
2017	Educational Computing Organization of Ontario Round 2 Finalist
2017	Toronto Finalist for Robotics and Control Systems