GARY LEUNG

Email: ytgary.leung@mail.utoronto.ca
Phone: (647)-982-2932
Github: github.com/1234gary
LinkedIn: linkedin.com/in/gary-leung3

Education

University of Toronto **CGPA: 3.90/4.00**

BA.Sc. in Engineering Science, 3rd Year Robotics

- *Coursework: Machine Learning, Natural Language Processing, Data Structure and Algorithms, Operating Systems*

Skills

Python, C++, C

Tensorflow, Keras, OpenCV, Linux, Git, Android Studio

Experience

Samsung Toronto AI Centre – *Research Intern* May 2018 – Now

- Working in a Deep Learning research team to push state-of-the-art in Computer Vision, Natural Language Processing, and Mobile Systems.
- Assisting in the construction and re-implementation of research pipelines using Tensorflow in a GPU cluster environment.

Dynamics Graphic Project – *Research Software Developer* May 2017 – Apr 2018

- Rebuilt imaging features for research system to display and compare optimized patterns for structured light imaging using the OpenCV library in C++.
- Implemented image analysis algorithms for depth determination.
- Updated research system with new user-centric features such as automatic data collection and error analysis functions.

CUHK Institute of Precision Engineering - *Prototype Development Researcher* May – Aug 2016

- Wrote C code for Arduino to achieve precise control of a mechatronic arm.
- Presented to research team improvements/insights analyzed from collected model movement data, which are now implemented for next prototypes.

Projects / Extracurriculars

Autonomous Bottle-Sorting Robot Jan – April 2017

- Designed and implemented a finite-state-machine-decision algorithm in C to perform autonomous bottle sorting. Ranked 4th out of 68 teams

Mechatronic Design Association - *Computer Vision Team* Sept 2015 – Mar 2016

- Constructed a view scanning algorithm with Hough Transforms and Canny Edge Detection in OpenCV in C++ to direct autonomous submarine movement.
- Lead and managed the buoy software sub team by organizing the program structure and allocating weekly tasks.

Awards & Accomplishments

- 6x University of Toronto Dean's List
- Engineering Science Pong AI Tournament 2016 – 1st Place
- Hack the Valley 2017 – MLH Hack Harassment Award Winner
- Hack with IX 2016 – 3rd Place Winner