AUSTIN LUU

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📍 Toronto, Canada

EDUCATION

Deep Learning Specialization
DeepLearning.AI

📅 01/2022

- Neural Networks, Hyperparamater Tuning, Regularization and Optimization, Machine Learning Project Structure, Convolutional Neural Networks, and Sequence Models

B.Eng Mechatronics Engineering
Ryerson University

📅 05/2021 📍 Toronto, Canada

- Dean's Honours List
- Robotics Intl. Society of Manufacturing Engineers Award
- Relevant Courses: Intelligent Systems, Real-Time Computer Control Systems, Linear Algebra, and Statistics

GPA
3.70 / 4.33

EXPERIENCE

Data Analyst
TOHacks

📅 01/2022 - Ongoing 📍 Toronto, Canada

- Working on increasing future participant submission rate through a data supported admission process

Process Engineer
AlphaPoly Packaging

📅 06/2021 - 10/2021 📍 Brampton, Canada

- Analyzed manufacturing operation data in PowerBI and Excel to redevelop STD operating procedures, forecasting a 65% reduction in operation downtime
- Developed end-to-end quality testing across all manufacturing departments reducing 2021 June-to-September quality cases by 31%

Product Data Analyst
Celestica

📅 05/2019 - 06/2021 📍 Toronto, Canada

- Initiated and managed Aerospace & Defense value engineering cost saving projects, reducing excess inventory by over 20% and expanding customer AVL portfolio by over 15%, leading to an annual cost savings of $1.5 million
- Analyzed over $5 million in customer portfolio data using PowerBI and Excel; identifying demonetized product developments and the impact of commodity price changes

Robotics Engineer
Ryerson Rams Robotics

📅 09/2016 - 06/2021 📍 Toronto, Canada

- Piloted development of dynamic force model simulations in MATLAB; increasing structural integrity by 35%: placing 2nd internationally at URC2019
- Led an agile team of 15 in design & development of an autonomous robot with PID control in C++; placing 1st nationally at 2018 & 2019 VEXU competitions

Research Assistant
Ryerson University

📅 09/2020 - 01/2021 📍 Toronto, Canada

- Designed, modeled, and simulated soft robotic continuum arm using Python in GMSH, SOFA, and ANSYS to analyze mechanical behaviour

SOCIALS

in LinkedIn
www.linkedin.com/in/austin-luu

GitHub
www.github.com/austinluu

TECH SKILLS

Tools

Python MATLAB SQL Java

C++ Octave GIT Linux

Microsoft Excel PowerBI

Packages & Frameworks

TensorFlow Scikit-Learn NumPy

SciPy Pandas Matplotlib

Jupyter Notebook OpenCV

Machine Learning

Statistical Analysis RNN CNN

Linear/Logistic Regression SVM

K-Means Clustering Regularization

Adams Hyperparamater Tuning

PROJECTS

RoadCV
📅 2022 📍 DeepLearning.AI

- Developed a car detection system using YOLO in TensorFlow to detect and draw bounding boxes around 80 potential classes for a self-driving car

Kabo
📅 2021 📍 Hack The North 2020++

- Discord bot for simulating karaoke with live pitch and lyrical correctness scoring
- Developed in Python and JavaScript using Aubio, Numpy, SpeechRecognition, Pydub, Wave, and LyricsGenius, Node.js, Discord.js, and PythonShell

Parallel Computing Drone Swarm
📅 2018 📍 PennApps XVIII

- Built a hazard detection 2D mapping robot which collects thermal, moisture, and relative location data from two autonomous IoT ground drones
- Developed with: Python, C++, MQTT Protocol, Arduino 101s, laser cutting, and 3D printing

Vision Motion
📅 2017 📍 THacks 2

- Leveraged real-time computer vision using OpenCV on mobile devices to track and graph the projectile motion of an object