FELIX SHIER

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EDUCATION

Queen's University

Bachelor of Applied Science (B.A.Sc.)

September 2017 – April 2022
Kingston, ON

- Major in Mathematics and Engineering with Professional Internship, Option in Computing and Communication
- Relevant Coursework: Data Analytics | Databases | Algorithms | Data Structures | Probability I-III | Calculus I-III | Linear Algebra I-II
- Capstone Project: Optimal Stochastic Control for Inventory Management

EXPERIENCE

Department of Math & Stats, Queen's University

Teaching Assistant

October 2021 – December 2021
Kingston, ON

- Assisted students with the mathematics and MATLAB programming concepts involved in their second year level engineering design course project.
- Technologies Used: MATLAB

Course Developer

June 2021 – August 2021 2021
Kingston, ON (remote)

- Developed educational course material and MATLAB software for APSC 200, a design course for second year Mathematics and Engineering students.
- Technologies Used: MATLAB | LaTex

Earth.Org

Data Analyst Volunteer

July 2021 – August 2021
Hong Kong (remote)

- Conducted a statistical analysis on the occurrences and costs of global natural disasters over the past four decades.
- Technologies Used: Python

Deloitte

Technical Analyst

May 2020 – June 2021
Waterloo, ON (remote)

- Advised and supported companies in procuring government investment incentives for their scientific research and experimental development (SRED) activities, strategic initiatives, and technical projects.
- Collaborated with technical teams to build technical reports and presentations to demonstrate technological developments for SRED claims within technology, media, and telecom industries.
- Technologies Used: MS Word | MS Excel | MS PowerPoint

TECHNICAL SKILLS

Languages

Competent: Python | MATLAB
Some Knowledge: SQL | R

Other Technical Skills

Git | MS Office | Technical Writing

EXTRA-CURRICULAR

Merlin Neurotechnology Club
Signal Processing Team Member

- Alpha-Light: Configured elements in a smart home environment using the Internet of Things and deconstructed brain waves from real-time raw EEG signals.
- Blink-Detection: Developed a Sequential 1-Dimensional Convolutional Neural Network trained on a dataset of EEG signal intervals to detect blinks with an accuracy of 95%.
- Technologies Used: Python

Betalab
Data Science Team Member

- Meeting Minutes: Developed an unsupervised extractive model using sentence embedding and feature-space analysis techniques to summarize natural language texts.
- Articles: Wrote and edited tutorials and articles relating to data science topics.
  - Article 1: Web Scraping with Python.
  - Article 2: Introduction to Artificial Neural Networks.
- Technologies Used: Python

CERTIFICATES

Stanford (Coursera)
Machine Learning Certificate

- Completed October 2020
- Gained experience implementing various learning algorithms ranging from regression models to neural networks.

Google (Coursera)
Data Analytics Professional Certificate

- Expected February 2022
- Gained experience performing data cleaning, analysis, and visualization using spreadsheets, SQL, R, and Tableau.