Mika Shaw

Contact Information

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Links

GitHub Profile

LinkedIn Profile

Languages/Frameworks

Javascipt

Java

Python

C#

SQL

C++

HTML

Tensorflow

Matplotlib

Pandas

Numpy

Git

Languages

English

French

Experience

Machine Learning Engineer, Eon Media Corp, Toronto

MAY 2022 — AUGUST 2022

- Designed and implemented an end-to-end ML solution (**ML Ops**) using **PyTorch, Numpy,** and **OpenCV** for action recognition in sports broadcasts
- Created synthetic datasets to assist in model development and evaluation without data acquisition costs
- Deployed ML pipeline using **AWS Lambda**, **EFS**, **EC2**, and **S3** to scale the speed of inference by 1000x while minimizing cost

Full Stack Developer, Stratus 360, Toronto

JUNE 2021 — SEPTEMBER 2021

- Tested functionality of **Salesforce Apex classes** using unit testing methods to achieve 100% code coverage
- Collaborated with project managers and senior developers to achieve better functionality within the companies codebase using **Visual Studio Code**
- Developed custom Salesforce web components using **HTML, JavaScript**, and **CSS** for streamlined user interaction on the Salesforce platform

Computer Vision Team Lead, Waterloo Aerial Robotics Group, Waterloo

JUNE 2021 — PRESENT

- Led the organization of the 2021-2022 Unmanned Aerial Vehicles Canadian Competition report through the creation of outlines on **Confluence** and regular communication with leads
- Performed transfer learning of Yolov5 **PyTorch** (computer vision) deep learning model
- Researched and implemented OBS source code to design a module for programmatic streaming of flight through **obs-websocket-python**

AI Model Developer, Watolink, Waterloo

OCTOBER 2021 — PRESENT

- Researched several deep learning models to classify (attention states) of steady state visually evoked potentials (SSVEP) data
- Utilized signal processing techniques with **NumPy** and **Scikit-Learn** as well as an LSTM, CNN and Compact CNN in **TensorFlow** to evaluate and optimize classification accuracies with the highest being 96**%**

Courses

Data Science, Codecademy

AUGUST 2020 — MARCH 2021

Certificate

Advanced TensorFlow Specialization, DeepLearning.AI

JUNE 2021 — AUGUST 2021

Certificate

Education

B.A.Sc Candidate for Biomedical Engineering, University of Waterloo, Waterloo, Ontario

SEPTEMBER 2021 — JUNE 2026