Jeslyn Wang

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Education

University of Toronto *Sept 2021 - Apr 2026 (expected)*

- *B.A.Sc in Computer Engineering + PEY Co-op, CGPA: 3.77*
- Intended minors in **Artificial Intelligence** and **Engineering Business**
- Relevant courses: Software Design (C++), Computer Fundamentals (C), Deep Learning (Python, PyTorch), Algorithms and Data Structures, Organizational Behaviour and Management

Technical Skills

- **Languages**: Python, C++, C, C#, SQL, HTML, MATLAB, Assembly, Verilog
- **Libraries**: PyTorch, Tensorflow, PySpark, NumPy, pandas, Keras, Scikit-learn, Matplotlib, BeautifulSoup
- **Tools & Frameworks**: Visual Studio Code, AWS, Jupyter Notebook, Github, Figma, Blender, Microsoft Office
- **Fields of Interest**: GANs, LLMs, Diffusion, Algorithms, Advanced Data Structures, Software Development

Experience

Machine Learning Intern @ Xero *May 2024 - Present*

- Developed model in **Python** using **Tensorflow** to extract amount values from financial documents and boosted accuracy by over 7% through implementing batching inference leading to overall accuracy of 90%.
- Analyzed databases using **SparkSQL** to identify trends in metadata.
- Developing **data structure** to represent all business entities using Xero to automate bank reconciliation.

Microfluidics & BioMEMS Lab (NSERC Undergraduate Summer Research Awards) *May 2023 - Sep 2023*

- Developed wearable sensors for stroke patient recovery to collect IMU data for upper extremity movement.
- IMU data processed and segmented using **Python** and **Jupyter Notebook**, reducing noise from signals.
- Researched deep learning **LSTM** model, using **Pytorch** to accurately categorize recorded patient movements.

Projects

Pokémon Type Classifier Deep Learning Model *May 2023 - Aug 2023*

- Created and trained **CNN** models with **Python**, **Pytorch** and **Jupyter Notebook** to classify Pokemon images into respective types, achieving over 60% accuracy for 18 different types.
- Data processing and augmentation using **Python** creating a dataset of over 10000 images.

Mapping Service *May 2023 - Aug 2023*

- Developed a location/path-finding system of many cities around the world, using **C++ object oriented programming** with **Netbeans IDE** and **Git** to collaborate on code.
- Features and information about the area retrieved using OpenStreetMap's **API** for over 10 cities.
- Loaded map information faster using **multi-threading** by over 600%.
- Developed custom **gridding algorithm** to draw map features, increasing frame rate by over 1000%.
- Developed path-finding algorithms with **Dijkstra** and **A***, placing in top 20% of teams in class for runtime.

Leadership

VP Marketing @ UofT Machine Intelligence Student Team (UTMIST) *May 2024 - Present*

- Leading team of **11** members to promote AI/ML initiatives to over **3,500** students and industry professionals.
- Developed and executed comprehensive marketing strategies across social media, email campaigns, and event promotions, increasing following by **20%** in five months.
- Spearheaded promotions that attracted over **500 applications** for UTMIST positions, significantly increasing engagement and membership interest.
- Fostered partnerships with business and technical clubs, including collaborations with Rotman clubs, enhancing visibility and outreach.