

ELLIOT SONES

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[Personal Website](#)

EDUCATION

Bachelor of Computer Science <i>Toronto Metropolitan University</i>	Sep 2025 – Present GPA: 3.7
Bachelor of Commerce (1st year) <i>Athabasca University</i>	May 2024 – Sep 2025

EXPERIENCE

NTangible <i>Machine Learning - Work Study Project</i> <ul style="list-style-type: none">Supporting the technical team on exploring real-world applications of AI/ML in sports psychology, combining technical development with performance analytics.	July 2025-Present
AI² Reinforcement Learning competition <i>University of Toronto</i> <ul style="list-style-type: none">Developed a transformer-based model that encodes opponent strategies into a 256-dimensional embedding space, enabling reinforcement and unsupervised learning agents to map and adapt to any opponent strategy.	October 2025
Metropolitan Undergraduate Engineering Society Hackathon <i>1st place - Across Greater Toronto Area</i> <ul style="list-style-type: none">Built and hosted a full-stack JavaScript web app with an interactive drawing canvas that converts sketches into playable worlds, featuring real-time multiplayer drawing via Supabase Realtime WebSockets.	October 2025
10 day Pond Hackathon <i>Educational Interactive Crypto Literacy Platform</i> <ul style="list-style-type: none">Built and deployed an interactive learning platform that received 20,000+ votes during the competition.	July 2025
Professional Academy Soccer Player <i>Lank Vilaverdense Soccer Club (U19)</i> <ul style="list-style-type: none">Developed high-performance discipline, focus, and teamwork through professional training and competition.	Aug 2023 – May 2024 <i>Vila Verde, Portugal</i>

PROJECTS

Neural Networks Classifier — MLP, CNN, RNN <i>Source + Demo</i>	Python (NumPy)
<ul style="list-style-type: none">Convolutional Neural Network: Stride-1 convolutional network for paired-MNIST (00–99) using label smoothing and gradient clipping — reached 90% dev accuracy without libraries.Multi-Layered Perceptron: Fully-connected classifier for MNIST (60k/10k) with ReLU, He init, AdamW, L2, and dropout — achieved 97% test accuracy without libraries.Recurrent Neural Network: 2-layer bidirectional GRU with Google Quick, Draw! stroke sequences — 91% top-1 / 98.6% top-3 validation accuracy.	
Machine Translator (Transformer Model) <i>Source + Demo</i>	Python (NumPy)
<ul style="list-style-type: none">Built from scratch a encoder-decoder transformer-based sequence-to-sequence model for neural translation.Implemented custom multi-head attention, token embeddings, and positional encoding mechanisms.	

Educational Lesson platform (Pond Hackathon) <i>SourceNext.js FastAPI Python SQL Google Cloud</i>	
<ul style="list-style-type: none">Developed a full-stack learning platform delivering AI-personalized crypto education using FastAPI and Next.js.Architected a modular microservice backend with scalable infrastructure and integrated user progress tracking.	

CERTIFICATES & COURSEWORK

Machine Learning Certificate <i>Coursera - Stanford Online and DeepLearning.AI</i> <ul style="list-style-type: none">Project base learning: Supervised learning; Advanced learning algorithms; Unsupervised learning; Recommenders; Reinforcement learning.	NumPy scikit-learn TensorFlow
Python for Everybody Certificate <i>Coursera - University of Michigan</i> <ul style="list-style-type: none">Python data structures; Web scraping; SQL ; Data retrieval, processing, and visualization.	Web Scraping SQL DB cleansing/processing
Front-End Dynamic Websites Courses <i>Coursera - University of Michigan</i>	JavaScript HTML5 CSS3

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, HTML5/CSS3, SQL

Frameworks & Libraries: React, Next.js, FastAPI, NumPy

Developer Tools: Git, Google Cloud Platform, Supabase

Core Concepts: LLM integration, Semantic Search, JWT Authentication, Data Processing

LANGUAGES

Canadian and French citizen, fully bilingual (English and French)