# Elliot Sones

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## Education

**Toronto Metropolitan University** Sep 2025 – Present
*Bachelor of Science in Computer Science; Projected Graduation - 2029* *Current GPA: 3.7*

**Athabasca University** May 2024 – Sep 2025
*Bachelor of Commerce*

## Experience

**Pond Hackathon** July 2025
*Builder — Educational Interactive Crypto Literacy Platform*
- Built and scaled learning platform to total 20 000 total votes

**Professional Academy Soccer Player** Aug 2023 – May 2024
*Lank Vilaverdense Soccer Club (U19)* *Vila Verde, Portugal*
- Trained and competed in a professional academy environment; developed discipline, resilience, and teamwork under pressure.

## Projects

**Crypto Literacy Platform (Pond)** | *Source* Next.js | Python | FastAPI | SQL | Google Cloud | Docker
- Architected a scalable full-stack learning platform that generates AI-personalized crypto education modules in real time.
- Designed a modular backend in **FastAPI** with **JWT-based authentication**, asynchronous APIs, and semantic search indexing.
- Implemented a distributed task pipeline using **Google Cloud VMs** to process 50,000+ words of content and dynamically generate structured lessons.
- Integrated large language models (LLMs) for automated feedback, personalization, and adaptive difficulty calibration.
- Optimized database queries with **NeonDB (PostgreSQL)** and implemented caching for high-performance content retrieval.
- Containerized services with **Docker**, supporting continuous deployment and versioned cloud builds.

**Neural Network From Scratch (MNIST classification Problem)** — *Demo and Code*
- Training on 60,000 data points with 784 features each
- Implementing Forward Propagation, Backpropagation, Activations functions, Gradient Descent and Loss function to 92%
- Improving the accuracy with batching, learning rate tuning, regularization to 97%

## Certificates & Coursework

**Machine Learning Certificate** Numpy | scikit-learn | TensorFlow
*Coursera – Stanford Online and DeepLearning.AI*
- Project base learning: Supervised learning; Advanced learning algorithms; Unsupervised learning; Recommenders; Reinforcement learning.

**Python for Everybody Certificate** Web Scraping | SQL | DB cleansing/processing
*Coursera - Michigan university*
- Python data structures; Accessing web data; Using SQL with Python; Data retrieval, processing, and visualization.

**Web Development Coursework** JavaScript | HTML5 | CSS3
*Coursera - Michigan University*
- Building front end and dynamic websites

## Technical Skills

**Languages**: Python, JavaScript, TypeScript, HTML5/CSS3, SQL
**Libraries/Frameworks**: React, Next.js
**Developer Tools**: Git, Google Cloud Platform
**Concepts**: LLM integration, Semantic search, JWT auth, Data processing

## Languages

**English** (fluent) **French** (fluent)