

Ilia Alenabi

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EDUCATION

University of Waterloo

Honours **Computer Science**; **Artificial Intelligence Specialization**; **Statistics Minor**

GPA: 4.0 – President’s Scholarship of Distinction

Waterloo, Ontario

Sep 2022 – Expected

AWARDS & ACHIEVEMENTS

National Mathematical Olympiad – Silver Medalist

Combinatorics Olympiad (ICO) – Silver Medalist

SKILLS

Languages: Python, C/C++, Java, JavaScript, TypeScript, Golang, Rust

Frameworks/Libraries: Numpy, Pandas, PyTorch, Tensorflow, LLVM, MLIR, React, Django, Next.js

Tools/Platforms: Git, Docker, AWS, Kubernetes, Redis, BigQuery, PostgreSQL, Pinecone, MongoDB

EXPERIENCE

Cerebras

Toronto, ON

Machine Learning Engineer - Internship

Sep 2025 – Dec 2025

- Built a **tensor-dump** comparison tool to validate parity between **CPU** and **CSX** inference runs for **GPT-OSS**
- Developed a **checkpoint-conversion** pipeline for all **inference** models with a peak memory usage of only **7%**
- Refactored the **inference pipeline** configs to enable compatibility with custom **tokenizers** and **image encoders**

Huawei Canada

Toronto, ON

Compiler Engineer - Internship

Jan 2025 – Apr 2025

- Designed an **LLVM** pass for automated software cache creation, tuning memory usage in **distributed systems**
- Analyzed **Redis**’s performance, identified hotspots, and implemented **prefetching** to reduce runtime by **20%**
- Developed an **MLIR** pass to annotate attention layers with **sharding** metadata, optimizing **tensor distribution**

Cohere

Remote

Data Engineer - Part-time

Sep 2024 – Apr 2025

- Designed high-quality training and evaluation data used to fine-tune and benchmark **Cohere’s production LLMs**
- Evaluated complex **math** and **coding** outputs from LLMs, identifying **reasoning errors** and providing **solutions**

Questrade Financial Group.

Remote

Software Engineer - Internship

Sep 2024 – Dec 2024

- Automated **cloud-based MLOps** pipeline for **fine-tuning** in **Java**, reducing redundant AI inference costs by **8%**
- Integrated **NLP DevOps** solutions, fine-tuned on **1,000+** support tickets, across **50+** internal Slack channels
- Integrated **authentication** checks into the internal pipeline, auditing SQL code from **200+** developers for security

Silverberry Group

Vancouver, BC

Data Scientist - Internship

May 2023 – Apr 2024

- Implemented a **U-Net** for diabetic wound segmentation and a classifier in **PyTorch**, achieving **92%** accuracy
- Developed an **interactive agent environment** to model **medication-use** behavior prior to product release
- Vectorized 200+ hours of doctor-appointment audio in **Pinecone** using **OpenAI Whisper** and **Hugging Face**

RESEARCH

Vector Institute

Toronto, ON

*Research Intern – **Interpreting Vision-Language Models***

May 2025 – Aug 2025

- Developed tooling to extract **intermediate** representations from **vision-language** models for **reasoning** analysis
- Ran **probing experiments** on **CLEVR** to evaluate **VLMs’** internal representations of **primitive concepts**

Pingoo AI

Remote

*Research Intern – **Building Trustworthy Generative AI for Diabetes Care***

May 2024 – Aug 2024

- Examined the **reliability** of LLMs for diabetes-focused applications using **few-shot learning** and **fine-tuning**
- Created a **self-evaluation** loop to enable models to refine their own outputs, achieving **85%** human-rated accuracy