

Ilia Alenabi

Waterloo, ON N2L 0B5
778-708-2776 ialenabi@uwaterloo.ca
linkedin.com/in/ilia-alenabi-2b4a6423a/

SUMMARY OF QUALIFICATIONS

- Solid understanding of mathematical concepts gained through **four years of advanced math study**, as well as the ability to apply them to practical use with excellent **problem-solving skills** and **analytical thinking**
- Experience with multiple coding languages, including **Python** and **C**, as well as familiarity with various **database models** and **frameworks** in Python, such as Pandas and NumPy
- Knowledge of machine learning classification techniques and various AI models, namely **text generation** and **picture description**, as well as current AI upgrades and new results, notably **fine-tuning**
- Solid understanding of text-generative AI via **vectorization** and the use of **Langchain** and other tools for data preparation, **embeddings**, and **vector storage** (Pinecone, Chroma,...)
- Excellent **documentation** and **communication** skills, as demonstrated by the ability to undertake numerous experiments and researches and properly document them

WORK HISTORY

INTERN - JUNIOR DATA SCIENTIST | Silverberry Group Inc. - Vancouver, BC | 04/2023 to Current

- Analyzed multiple types of data, including video and PDF, and **converting them into trainable data** for an AI model, increasing data preparation accuracy from **60% to 98%**
- Conducted **Fine-tuning** with various parameters on LLMs including the most recent **OpenAI** base models
- Created a webpage using **HTML** in **Firebase**, utilizing **Google cloud** functions including STT, OCR, etc.
- Created chat interface with **vectorization** and improved the process using **prompt engineering**

EXHIBITION COORDINATOR | Allame Helli 10 - Tehran, Iran | 09/2020 to 04/2021

- Coordinated annual student exhibition, overseeing project submissions, and marketing efforts
- Managed **team of six volunteers**, delegating tasks and ensuring event success
- Created **promotional materials** with teachers and students to boost exhibition participation
- Conducted site visits to determine best layout and **design for exhibition space**

SKILLS

- **Languages:** Python, C, C++, Racket, R, HTML, CSS
- **Tools:** Git, Excel, Firebase, Google cloud, Langchain, Pinecone (Vector database)
- **Frameworks:** Pandas, NumPy, MoviePy

AWARDS

- **National Mathematical Olympiad silver medal** | 09/2021
- **President's scholarship of distinction** | University of Waterloo | 09/2022

EDUCATION

University of Waterloo - Waterloo, ON | Bachelor of Mathematics | Expected in 04/2026

- **GPA: 3.9**
- Relevant courses : Statistics, Functional programming, Elementary Algorithm Design and Data Abstraction, etc.