

# Ilia Alenabi

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## SKILLS

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**Languages:** Python, C/C++, JavaScript, Bash, SQL, R, CSS, Haskell, Racket

**Frameworks:** Node.js, Next.js, Bootstrap, Flask, Django, Google Cloud Functions

**Tools/Libraries:** Git, PyTorch, TensorFlow, Langchain, Pandas, Weaviate, Pinecone, Chroma, React, jQuery, Firebase

## EXPERIENCE

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### Silverberry Group

*Data Scientist*

Vancouver, British Columbia

*April 2022 – April 2023*

- Oversaw and processed **200+** hours of audio/video utilizing **GCF**, **OpenAI Whisper**, and **Azure Functions**
- Converted various data files into vectors for storage in vector databases like **Pinecone**, **Chroma**, and **Weaviate**
- Created an AI-simulated **interactive agent** environment to optimize application UI usability pre-production
- Developed an image recommendation model with **PyTorch**, leveraging **convolutional neural networks (CNN)**
- Enhanced developers' collaboration by visualizing test phases onto web-based interfaces using **React** and **jQuery**

### Pingoo.AI

*Co-author – Building Trustworthy Generative AI for Diabetes Care*

Remote

*January 2023 – March 2023*

- Published in **Journal of Diabetes Science and Technology**, ranked in the **top 10%** of health sciences journals
- Developed a diabetes-focused **RAG** model using **Langchain** library in Python, and trained on over **700 articles**
- Reduced factual errors in AI output from **45%** to **1%** through **few-shot learning** and **prompt engineering**
- Conducted validation tests for the chatbot, using **F1 score** among other metrics to assure model reliability

## VOLUNTEER WORK

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### ISAW (A University of Waterloo club)

*Event Coordinator*

Waterloo, Ontario

*September 2023 – Present*

- Overseeing finances and event coordination of weekly and major events with **+500** anticipated participants
- Organizing weekly club meetings, coordinating agendas to ensure effective communication among members

### National Organization for Development of Exceptional Talents

*Exhibition Coordinator*

Remote

*September 2021 – September 2022*

- Coordinated the **annual student exhibition**, managing project submissions and leading marketing initiatives
- Managed a team of **six volunteers**, delegating tasks and overseeing operations to ensure the success of the event
- Collaborated with teachers and students to create promotional materials to boost exhibition participation

## AWARDS & ACHIEVEMENTS

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**Silver Medalist - National Mathematics Olympiad:** Ranked **21st** out of 10000 participants to compete for the National team membership for the International Mathematics Olympiad (**IMO**). (September 2021)

**President's scholarship of distinction - University of Waterloo** (September 2022)

## EDUCATION

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### University of Waterloo

*Honours Computer Science; GPA: 4.00/4.00*

Waterloo, Ontario

*September 2022 – Expected*

Relevant courses:

- Computational Statistics and Data Analysis
- Object-Oriented Software Development
- Foundations of Sequential Programs
- Computer Organization and Design Algorithm
- Design and Data Abstraction