

Abaan Noman

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EDUCATION

Carleton University

Ottawa, ON

Honours Bachelor of Computer Science, AI/ML stream

Expected Graduation, December 2027

GPA: **3.94/4.0** | **11.5/12.0**

- **Relevant Coursework:** Data Structures and Algorithms, Object-Oriented Programming, Discrete Math, Systems Programming, Statistics and Probability

AVAILABILITY

Available for 4-8 months, beginning May 2025

TECHNICAL SKILLS

Programming: Java, Python, HTML/CSS, JavaScript

Tools/Frameworks: NLP, LLM, RAG, Flask, IntelliJ, PyCharm, Visual Studio Code, OpenCV, Jupyter Notebook

PROJECTS

Personal AI Doctor (P.A.I.D) | RAG, NLP, LLM, Python, Flask, JavaScript, HTML, CSS

- Developed a web-based application for medical diagnosis using advanced **AI** techniques, including **LLMs** and **RAG**
- Integrated **LLAMA 3 70B** to convert user input into keywords and **Mixtral 8x7B** to process information from **vector databases** for accurate responses
- Implemented a user-friendly interface with **HTML**, **CSS**, and **JavaScript**, and built the backend with **Python** and **Flask** for secure **API** communication
- Optimized the system for real-time, relevant AI-generated medical advice, ensuring easy customization and deployment on any infrastructure

Motion Detection Security System | Python, Tkinter, OpenCV

- Created a **Python** based security camera system using **OpenCV** for image processing and **Tkinter** as the frontend
- Optimized motion **detection algorithm** to highlight and track motion with **85%** accuracy
- Implemented local video storage with automatic recording stop for efficient **space management**

Ecommerce Electronics Store | Java, JavaFX, MVC

- Developed an Ecommerce store using **Java** with a fully functioning **GUI**
- Designed and implemented a **GUI** using **JavaFX**, adhering to the **MVC** paradigm for modularity and future scalability
- Integrated product browsing, cart management, and checkout functionalities, enhancing **user experience** and **operational efficiency**

EXPERIENCE

Ottawa Carleton District School Board

Oct. 2022 – April 2023

Computer Science and Math Tutor

Ottawa, ON

- Developed learning plans for **40+** students to enhance their understanding of computer science and math concepts
- Used **Python** and **Desmos** to create interactive educational tools, including **simulations** and **visualizations**
- Explored ways to visualize **programming** collaboration in a classroom setting