

ARYAN HUSSAIN

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EDUCATION

The University of Toronto

Expected Graduation Date: 2026

Bachelors of Applied Science, Computer Engineer

- Faculty of Applied Science & Engineering Admission Scholarship
- 2023 Winter Deans Honor List Recipient
- Notable Courses: Programming Fundamentals, Object Oriented Programming, Fundamentals of Deep Learning, and Software Design and Communication

SKILLS

Programming Languages	C/C++, Python, Java, Javascript, HTML/CSS, Matlab, Verilog
Frameworks & databases	React, Redux, Node, MongoDB, Firebase
Libraries	PyTorch, Pandas, NumPy, Matplotlib, Librosa

WORK EXPERIENCE

Illuminate Universe

May 2023 - Aug 2023

Intern, *Remote*

- Co-hosted an informative podcast series with engineers, providing free insights and guidance to high school and university students interested in engineering and related fields
- Designed and implemented a custom video player on my personal website using **HTML** and **CSS** skills to craft a user-friendly and visually appealing video player, enhancing the website's multimedia experience

PROJECT EXPERIENCE

AudioCat Neural Network

July 2023 - Aug 2023

Lead Developer,

[Github](#)

- Led a team of 4 to develop an audio classification convolutional recurrent neural network that classifies WAV audio files into different forms of media including music, conversations, TedTalks, and audiobooks using the **Numpy** and **Pytorch** Libraries with a testing accuracy of 95.8%
- Sampled and collected over 8000 different audio samples from various sources and built a **Python** script to sort, edit, and convert the files into normalized Mel-Spectrograms using the **Librosa** library

Not-Flix

December 2023 - January 2024

Developer,

[Github](#)

- Designed a high-end Netflix clone with a dynamic front-end using **React** and **Redux**, and **Node** for both the frontend and backend in conjunction with the TMDb media API for a vast catalog
- Leveraged **Firebase** for secure user authentication and data integrity, alongside **MongoDB** to efficiently manage user account preferences, ensuring both privacy and personalized experiences within the application

The Pathfinder

January 2024 - Present

Developer

- Developed a maps application in **C++** utilizing the OpenStreetMap Database API
- Implemented the A* graph path-finding algorithm to find the shortest route between multiple destinations

LEADERSHIP EXPERIENCE

- UofT the Institute of Electrical and Electronics Engineers (IEEE) - Marketing Executive: Planned marketing initiatives and designed promotional material for social media and billboards using **Figma**
- UofT Engineers Without Borders (EWB) - Youth Engagement Developer: Developed a website to spread awareness for homelessness in Toronto to encourage donations to homeless shelters
- Laurier Computer Science - Head Java Trainer: Prepared a custom **Java** curriculum to prepare students for the Canadian Computing Competition (CCC)