

Karamvir Singh Hira

905-462-2229 | Karam.hira10@gmail.com | karamhira.github.io | linkedin.com/in/karamvirhira | github.com/karamhira

EDUCATION

McMaster University

Bachelor of Computer Science

Hamilton, ON

Expected Graduation 2026

- **Cumulative GPA** : 3.9/4.0
- **Awards**: Deans' Honour List, Awarded Engineering Award of Excellence scholarship for students with above a 95% average in high school

TECHNICAL SKILLS

- **Languages**: Python, JavaScript, HTML5, CSS3, C++, Java, Haskell
- **Frameworks**: React.js, NodeJS, Flask, MySQL, Firebase Cloud Store, PyTorch
- **Developer Tools**: VsCode, Visual Studio, GitHub, Git, WordPress
- **Libraries**: Numpy, TensorFlow, Keras, Matplotlib, Pandas

PERSONAL PROJECTS

GuestSnap | *React.js, Firebase Cloud Store*

August - September 2023

- Developed a web application enabling users to collect photos and videos captured by guests in one place.
- Allows users to create and shareable links and qr codes where guests can upload images they took during the event.
- Implemented storage, data management, and authentication through Firebase.

Employee Management | *Flask, Mysql, HTML5, CSS3 JavaScript*

March - August 2023

- Developed a workforce management software, empowering businesses to efficiently manage their employees with scheduling, payment, notifications and more.
- Provides Employees ability to clock in and out, access their schedules, and receive important notifications.
- Designed and implemented the backend using Flask and MySQL, while the frontend is written in pure HTML, CSS and Javascript.

Letter- Recognition | *Flask, PyTorch, Numpy, Tensorflow, HTML5, CSS3, JavaScript*

September 2023

- Developed a letter recognition system using PyTorch-trained convolutional neural network with the EMNIST dataset, achieving 94% accuracy rate.
- Made an interactive canvas interface using HTML, CSS and JavaScript, enabling users to input handwritten characters for recognition.
- Implemented a REST API for real-time letter recognition by connecting the web interface to a Flask server.

Fantasy Football Assistant | *Python, Pandas, BeautifulSoup*

December 2022

- Developed a Python script for retrieving and displaying fantasy football statistics for a specified year between 2000-2023, including the ability to export the processed data to a CSV file for further analysis.
- Utilized the Pandas library for data analysis and storage, and the BeautifulSoup library for HTML parsing.
- Implemented user input validation and data cleaning techniques to ensure accurate and organized results.

WORK EXPERIENCE

Skate Instructor

October 2021 - Present

City Of Brampton | Recreation Division

- Plan, organize and deliver high quality safe and stimulating skating lessons for kids 3 to 17, and groups of up to 10.
- Adjusted coaching techniques to highlight strengths and weaknesses of each individual athlete.
- Supervise participants and maintain complete vigilance to minimize risk and be ready to always respond.
- Analysed moves of skaters to explain correct and incorrect techniques.

VOLUNTEER EXPERIENCE

Recreation Volunteer

August 2018 - Present

City Of Brampton | Recreation Division

- Assisted teaching and supervising participants in skating, guitar, and sports classes.
- Helped setting up and organizing special events for the community.

Election Campaigning Office

August 2021 – September 2021

- Campaigning and canvassing by door to door and phone.