

# Ishar Ghura

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## EDUCATION

### Carleton University

Ottawa, Canada

*Bachelor of Computer Science, Honours, Co-op, AI and ML stream, Minor in Business*

*Sept. 2022 - April 2027*

- GPA: 3.8/4
- Relevant Courses: Data Structures & Algorithms, Web Development, Discrete Structures, Software Engineering, Systems Programming, Database Management Systems
- Available for internship/co-op positions for **Summer 2024** and **Fall 2024**

## TECHNICAL SKILLS

**Languages:** Java, Python, C/C++, JavaScript, TypeScript, HTML/CSS, SQL

**Frameworks:** Express.js, Node.js, React, React Native, jQuery, Flask, Django, TensorFlow, NLTK, Keras, NumPy

**Technologies & Tools:** Git, GitHub, PostgreSQL, MongoDB, SciPy, WSGI, NumPy, REST, Linux, OpenStack, Postman, AWS, Azure, Microsoft Office, Power BI, Docker, QNX

## EXPERIENCE

### Embedded Software Engineer | C, QNX, LoRa, Shell Scripting, Git

Ottawa, Canada

*CU InSpace - Carleton Rocketry*

*Feb. 2024 - Present*

- Writing **C** code that interfaces with hardware and sends real-time data over **LoRa** using **QNX**
- Implementing the **GNSS** metadata block, which stores data on which **GPS** and **GLONASS** satellites are in use
- Encoding **sensor data** into radio packets to be received by the ground station to distribute it via **websocket**

### Organizer, Community Engagement Team

Ottawa, Canada

*cuHacking - Carleton's Official Hackathon*

*Feb. 2024 - Present*

- Organizing **workshops**, discussions, and **coding challenges** targeting students passionate about technology
- Communicating through social media and online platforms to promote events and increase engagement
- Fostering skill development, knowledge sharing, and networking to create a vibrant technology community

## PROJECTS

### CanvasConnect | JavaScript, MongoDB, Mongoose, Node.js, Express.js, Pug, CSS, Git

Dec. 2023

- Developed a **web app** that acts as an artwork **social media** platform to help users discover new artworks
- Connected to **MongoDB** database via **Mongoose**, supporting user registration, login, and data storage
- Enabled users to **like** artworks, **follow** artists, and receive **notifications** whenever an artist posts a new artwork
- Utilized **Express.js** to create an interactive user interface with **JavaScript** running on a **Node.js** server

### Food Tracker | Python, Flask, JavaScript, HTML/CSS, Git

Aug. 2023

- Developed a **web app** which asks a user for a food and fetches its corresponding nutrition facts per **100 grams**
- Fetches nutrition facts about a food using the FoodData Central **API** using **JavaScript**
- Displays **nutrition facts** for a given food such as the amount of protein, fibre, and calories using **HTML/CSS**
- Aims to simplify healthy living inspired by the **Sustainable Development Goals** adopted by the United Nations

### Discord Chess Bot | Python, Flask, Discord.py, Git

July 2023

- Created an **interactive Discord bot** that plays chess against users in a Discord server using chess notation
- Programmed the chess bot to make decisions using the **minimax algorithm** with **Python** and **Discord.py**
- Designed an **intuitive** chess board out of a grid and symbols to help users make moves visually
- Empowering Discord users with engaging chess games, stimulating community engagement

### AI Chatbot | Python, TensorFlow, Keras, Waitress, Flask, JavaScript, HTML/CSS, Git

June 2023

- Developed an **intelligent chatbot** in **Python** using **TensorFlow** and **Keras** to mimic human conversation
- Trained the chatbot model by feeding it a curated list of patterns associated with corresponding tags and responses
- Designed a user-friendly interface using **HTML/CSS** and deployed using **Waitress** and **Flask**
- Aims to offer continuous support for users **24/7**, whether it be asking for career advice, the time, or to tell a joke