Ishar Ghura

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EDUCATION

Carleton University   Ottawa, Canada
Bachelor of Computer Science Honours, 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, R
Frameworks: React, React Native, Express, Node.js, 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

EXPERIENCE

Embedded Software Engineer   Ottawa, Canada
CU InSpace - Carleton Rocketry   *Feb. 2024 - Present*
- Designing the telemetry systems of a rocket as part of the avionics team working on the **QNX Stack**
- Writing **C** code that interfaces with hardware and sends data over **LoRa**
- Encoding sensor data into radio packets to be received by the ground station

Organizer, Community Enagement 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

Food Tracker Website | *Python, Flask, JavaScript, HTML/CSS*   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 relevant information to the food such as the amount of protein, fibre, and calories using **HTML/CSS**
- Aims to simplify healthy living inspired by the Sustainable Development Goals

Discord Chess Bot | *Python, Flask, Discord.py*   July 2023
- Created an **interactive Discord bot** that plays chess against users in a Discord server using chess notation
- Programmed the chess bot to calculate and make decisions using the **minimax algorithm** with **Python**
- 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, Flask, JavaScript, HTML/CSS*   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 hours a day, whether it be asking for the time or career advice

Maths Quiz Website | *JavaScript, HTML/CSS*   June 2023
- Programmed an **interactive maths quiz** to engage users to practice math operations
- Generated questions randomly and provided multiple choices questions using **JavaScript**
- Recorded users' score and displayed it at the end of the quiz using **HTML/CSS**
- Designed to enhance users' mathematical skills through a fun and engaging environment