

Ishar Ghura

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EDUCATION

Carleton University

Bachelor of Computer Science Honours, AI and ML stream, Minor in Business

Ottawa, Canada

Sept. 2022 - April 2027

- GPA: 3.8/4
- Relevant Courses: Data Structures & Algorithms, Web Development, Discrete Structures, Software Engineering, Systems Programming, Database Management Systems

EXPERIENCE

Avionics Software Developer

CU InSpace

Ottawa, Canada

2024 - Present

- Designing and manufacturing the telemetry systems of a rocket as part of the avionics team
- Writing C code that interfaces with hardware and sends data over LoRa
- Collaborating with fellow developers using git

Organizer

cuHacking

Ottawa, Canada

2024 - Present

- Support skill development, foster knowledge sharing, and facilitate connections amongst students
- Planning workshops, challenges, and events to engage community members
- Communicating with fellow organizers at cuHacking to ensure successful hackathons

PROJECTS

Food Tracker Website | *Python, Flask, JavaScript, HTML/CSS*

August 2023

- Programmed a nutrition information website using Python, JavaScript, and HTML/CSS
- Fetches nutrition facts about a food using the FoodData Central API
- Displays relevant information to the food such as amount of protein, fibre, etc
- Created a user interface that is compatible with various devices

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
- Designed an intuitive chess board out of a grid and symbols to help users make moves visually
- Used Flask to keep the bot alive

AI Chatbot | *Python, Flask, JavaScript, HTML/CSS*

June 2023

- Developed an intelligent chatbot in Python using TensorFlow and Keras
- Trained the chatbot model on a list of patterns which each had tags and responses
- Designed a clean-looking website using HTML, CSS, and JavaScript for users to communicate with the chatbot
- Deployed using waitress and Flask

Maths Quiz Website | *JavaScript, HTML/CSS*

June 2023

- Programmed an interactive maths quiz website using HTML, CSS, and JavaScript allowing users to test their abilities in math operations
- Generated questions randomly and provided multiple choices with only one correct answer
- Recorded the user's score and displayed it at the end of the quiz
- Deployed using GitHub Pages

TECHNICAL SKILLS

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

Tools/Technologies: React, Node.js, Flask, PostgreSQL, Express, MongoDB, React Native, TensorFlow, Keras, SciPy, NLTK, WSGI, NumPy, REST, Linux, OpenStack, Postman, Azure, Git, Microsoft Office