

Ishar Ghura

613-796-5263 | ishar.ghuras@gmail.com | isharghura.com | linkedin.com/in/ishar-ghura | github.com/isharghura

EDUCATION

Carleton University

Ottawa, Canada

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

February 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

February 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

MathMaster | React Native, Expo CLI, React Navigation, Context API, npm, Git

April 2023

- Developed an interactive **mobile app** designed to allow users to learn and practice basic arithmetic skills
- Implemented a **score** system, **profile** view, and **settings** to change difficulty level from easy to hard
- Utilized **React Native** and **Expo CLI** to ensure smooth testing, simulation, and cross-platform functionality
- Provided an engaging and accessible environment for users to foster their proficiency in arithmetic

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

December 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

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