Mohammad Alzaaour

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Education

Carleton University, Bachelor of Computer Science Honours — Sept 2022 – April 2026

- GPA: A-
- Computer Science Artificial Intelligence and Machine Learning Stream

Work Experience

Barista, Bridgehead – Ontario, CA — June 2023 – Present

- Provided customer service in a fast-paced café environment, maintaining high satisfaction ratings from customers
- Managed inventory and restocked supplies, ensuring the café was well-equipped to serve a high volume of customers daily
- Trained new staff on café protocols, beverage preparation, and customer service techniques, enhancing team performance.
- Collaborated with team members to manage time efficiently, reducing customer wait times and improving service speed.

Teaching Assistance, Carleton University – Ontario, CA — Sept 2023 – Dec 2023

- Provided support during lab sessions, answer questions, and clarify concepts
- Offered additional help and guidance outside class hours for students needing extra support.
- Offered feedback to the instructor on student progress and common challenges
- Evaluated homework, quizzes, and projects based on given rubrics.

Projects

Express Music Server — Github Link

- Engineered a dynamic Express.js-based web application interfacing with the iTunes API for music search, showcasing skills in asynchronous JavaScript, AJAX, and JSON.
- Ensured web security by implementing input data sanitization against XSS attacks and safe content rendering.

Chat AI bot — Github link

- Developed a local, virtual environment-based AI chatbot using Ollama model, implementing dynamic response generation based on real-time conversation context using a Python-based command-line interface.
- Designed the chatbot's logic using a custom prompt template to maintain conversation flow, ensuring natural and coherent responses

HunterGhost Simulator — Github Link

- Engineered a multi-threaded C program simulating ghost hunts within a dynamically linked room system, showcasing proficiency in thread management, linked lists, and inter-process communication
- Employed thread synchronization techniques using semaphores to prevent data races, maintain thread safety, and ensure reliable simulation flow.

TECHNICAL SKILLS

Languages: Python, Java, C, C++, C#, JavaScript, TypeScript, React, Html, CSS, Sql, NoSql, Graphql

Tools: Git, Pytorch, TensorFlow, Pandas, MongoDB, PostgreSQL, Nodejs, Selenium, Pytest, Microsoft Azure

Skills: Data Structures and Algorithms, Object Oriented Programming, Machine learning, Databases