Fahmi Omer

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SKILLS

Languages: Python, Java, Golang, HTML, CSS, JavaScript, TypeScript, Racket, SQL, C, C++, C#
Tools and Frameworks: React, NodeJS, Git, Bash, Flask, Linux, Vim, Docker, REST API, Axios

WORK EXPERIENCE

Canadian Surgical Technologies and Advanced Robotics (LHSC)   **July 2023 – Aug. 2023**
Summer Intern   *London, ON*
- Automated the task of reporting course participant data of 6000+ attendees to the American College of Surgeons, reducing expended time from ~40 hours to ~10 minutes, through a data sorting algorithm.
- Utilized the OpenAI API and Docker to create an AutoGPT agent to write stories and review medical data.
- Led a video creation project to showcase emergency care medicine training via a simulation mannequin, teaching incoming students proper techniques and approaches to ER care and medical profession.
- Conducted 600+ medical students, residents, and more in various courses and assisted with lab technology.

Kumon North America   **Aug. 2021 – Aug. 2023**
Mathematics and English Instructor   *London, ON*
- Instructed 300+ students ranging from ages 6 to 20 across various levels of mathematics ranging from basic arithmetic to advanced calculus and supported students through difficulties, academically and emotionally.
- Worked with a well-connected team to ensure success for students and Kumon throughout the pandemic through effective remote work using video tutoring software and continuously monitoring student progress.

PROJECTS

Where's My Exam? | Python, React, MySQL, Flask, Axios, HTML/CSS/JS   **May 2024**
- Developed a Full-Stack React app that allows uWaterloo students to access final exam schedules.
- Implemented a Flask back-end and a MySQL database to create a server responding to axios requests.
- Currently Implementing user authorization to allow students to create accounts and save exam history.
- Solving the problem of unorganized exam schedules saving hours for thousands of students to plan exams.

WAT Will I Do? | Python, React, MySQL, Selenium, Flask, Axios, HTML/CSS/JS   **May 2024**
- Developed a Full-Stack React app that allows uWaterloo students to plan years following requirements.
- Implemented a Flask back-end utilizing selenium to scrape requirements from the undergrad calendar.

HearMeOut.Ai | Python, HTML/CSS, Javascript, CohereAPI, Flask   **Feb. 2024**
- Developed a Full-Stack web application that allows a user to have a conversation with an AI chatbot.
- Utilized Cohere's API to process recieved transcribed speech to text responses from the user to craft a chatbot response capable of reviewing previous conversation and respond through speech accordingly using Pyttsx3.
- Utilized HTML/CSS and Flask to create a functional front-end for the project through GET/POST methods.

EDUCATION

University of Waterloo   **Aug. 2028**
BCS, Honours Bachelors of Computer Science, Co-op   *Waterloo, ON*
- President's Scholarship of Distinction
- MathSoc First Year Representative, Elections Committee, Double Degree Club Member, Serve, Socratica
- Relevant Coursework: Algorithm Design and Data Abstraction, Techniques for Software Development