

Hamza Farooq

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EDUCATION

McGill University

Bachelor of Arts - Triple Major - Computer Science, Economics and Finance.

Sept 2019 - Dec 2023

Montreal, Canada

Languages: Python, Java, HTML, CSS, Javascript, C, SQL, TypeScript

Frameworks and Libraries: Node.js, Express.js, React.js, Flask, Tensorflow, Keras, Cv2, Numpy, Pandas, Mongoose

Tools: Bash/Unix/Linux, Microsoft Azure, Docker, Git, MongoDB

Hackathons: Codejam, Mchacks.

EXPERIENCE

Hack4Impact

Full-stack Developer

Aug 2022 - Present

Montreal, Canada

- Collaborated with a Project Manager, Tech Lead, and 5 developers in an AGILE environment at Hack4Impact, a student-run organisation, which designs and develops software solutions for non-profit organisations.
- Developed a Full-stack RESTful web-app/CRM tool using React.js for the frontend and typescript/PostgreSQL for the backend, aiming to facilitate an organised distribution of 300,000+ meals and supply boxes per year.
- Tech stack: Typescript, TypeORM, React.js, Express.js, MUI, Docker

McGill Artificial Intelligence Society Machine Learning Bootcamp

Software Developer

Sept 2022 - Dec 2022

Montreal, Canada

- Developed a web-app using Flask for facial and emotion detection using the AlexNet convolutional neural network which uses a computer's webcam as input and uses the ML Model to predict the emotion in real time.
- Developed a malware detection machine learning model using Random Forest Classifiers with an accuracy of 97%.
- Tech stack: Python (Tensorflow, Keras, Numpy, Pandas, Flask, cv2, Sklearn) HTML, CSS

Coveo

Business Analyst Intern - Information Systems

May 2022 - Aug 2022

Montreal, Canada

- Introduced a new streamlined and automated process for projects and demands in the project management office by implementing Asana-Jira and Asana-ServiceNow integrations.
- Implemented several KPIs and metrics in Asana for more accurate reporting across the Project Management Office such as cost tracking, gates schedule and delivery accuracy using AGILE development and delivery methodology.
- Created a new strategic framework to be adopted across the company to align different business units' objectives and projects in a global roadmap.
- Created and maintained documentation for the project management office on Confluence.
- Skills: Asana, Project Automation, Metric Implementation, Strategic Alignment, Documentation Management

PROJECTS

Flash Card App

Nov 2022 - Feb 2023

- Developed a full-stack RESTful web application using TypeScript, Node.js, Express.js, MongoDB for the backend and React.js for the frontend for users to create and study their own flashcards.
 - Ensured seamless integration between the front-end and back-end of the application via CRUD API.
- Tech stack: HTML, CSS, Typescript, Node.js, Express.js, MongoDB

Recipe App

Jan 2023

- Deployed a full-stack responsive web-app on Microsoft Azure and netlify that fetches data from the MealDB API and provides recipes based on the input. Error handling was also implemented for empty inputs and unsuccessful API requests.
- Tech stack: HTML, CSS, Javascript

Personal Website

Dec 2022

- Developed a full-stack responsive website to showcase all my projects using React.js and MUI for the front-end.
- Used Emailjs and Whatsapp API for the backend to enable communication directly from the website.
- Tech stack: HTML, CSS, Node.js, React.js, MUI

Fireball

July 2021 - Dec 2022

- Developed an interactive survival game called Fireball with animations using Python's Pygame Library.
- Implemented collision recognition from scratch using the Math library.
- Tech stack: Python (Pygame, Math)

Relevant Courses: Software Systems, Software Design, Data Structures and Algorithms, Database Systems, Web Development, Advanced Microeconomics and Macroeconomics, Economic Statistics, Econometrics, Accounting, Applied Corporate Finance, Investment Management