Hamza Farooq

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EDUCATION

McGill University Sept 2019 - Dec 2023
Bachelor of Arts - Triple Major - Computer Science, Economics and Finance. *Montreal, Canada*

EXPERIENCE

Hack4Impact Aug 2022 - Present
Software Developer *Montreal, Canada*
- Part of the development team for a CRM tool for a Montreal-based nonprofit, which allowed employees to keep track of their volunteers' information more effectively.
- Worked in an AGILE development environment along with a PM, a Tech Lead, and 5 developers.
- Tech stack: Typescript, TypeORM, React.js, Express.js

McGill Artificial Intelligence Society Bootcamp Sept 2022 - Dec 2022
Participant *Montreal, Canada*
- Developed several machine learning models improving both theoretical and hands-on skills required for ML research and industry.
- Worked towards a final project which was presented at the McGill AI Project Fair.
- Tech stack: Python (Tensorflow, Keras, Numpy, Pandas, Flask, Sklearn) Javascript

Coveo May 2022 - Aug 2022
Business Analyst Intern - Information Systems *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.
- Supported tech stack road mapping and ROI optimization by introducing and decommissioning tools in the company's tool stack.

PERSONAL PROJECTS

Recipe App
- Developed a responsive recipe app using Javascript and the MealDB API.
- Tech stack: Javascript

Personal Website
- Developed a responsive website using HTML, CSS and React.js.
- Used Emailjs and Whatsapp API to enable communication directly from the website.
- Tech stack: Node.js, React.js

Emotion Detection Using CNN
- Developed a machine learning model for facial and emotion detection using AlexNet convolutional neural network which displays an emoji on the screen corresponding to the emotion.
- Deployed the ML model on a web-app using Flask.
- Tech stack: Python (Tensorflow, Keras, Numpy, Pandas, Flask) Javascript

Fireball
- 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)

Malware Detection Using Random Forest Classifiers
- Used Random Forest Classifiers to create a malware detection model with an accuracy of 97%.
- Tech stack: Python (Tensorflow, Keras,Numpy Pandas)

Skills: Python, Java, Javascript, Node.js, Express.js, React.js, Typescript, Bash, Unix, Linux, C
Hackathons: Codejam, MAIS 202 Kaggle Competition, Mchacks

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