

HUSSAIN FATHI



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WORK EXPERIENCE

Data Engineer

Feb 2022 - Present

CIBC, Toronto, ON

- Took part in an Agile environment within the enterprise data hub team focused towards deploying a next generation cloud-native data platform on Azure
- Created ETL pipelines to migrate the financial transactions of over 11 million users from on-premise SQL server to Azure cloud using Azure Data Factory and SQL stored procedures
- Utilized Azure Databricks to create proof-of-concept applications such as the incorporation of dynamic file and partition pruning which reduced the query time by almost 5 times on non-partitioned delta tables

Software Engineer

July 2021 - Jan 2022

LatAm Startups, Toronto, ON

- Developed RESTful API with Express.js in Node.js to retrieve and consolidate metrics from multiple databases
- Built reusable UI components using Angular and TypeScript which reduced the development time by 50%
- Implemented device caching and persistent data storage to user documents, decreasing app load time by 20%

Software Engineer Co-op

January 2020 - August 2020

Department of National Defense, Ottawa, ON

- Part of the Radar Electronic Warfare team within the Defense Research and Development Canada agency which is aimed to provide the Canadian Armed Forces with modern radar detection technology
- Employed advanced signal processing techniques and machine learning tools such as neural networks, random forest and support vector machines to classify different categories of cognitive radars
- Utilized python libraries such as Tensorflow, Scikit-learn and OpenCV to build machine learning models which achieved a classification accuracy of over 80%

Software Developer Co-op

May 2019 - December 2019

Adlib Software, Burlington, ON

- Aided in the development of a scalable enterprise solution to help organizations manage their unstructured documents via AI using .NET framework 4.5 and MVC 5
- Reduced security threats by 60% by addressing static and open-source software vulnerabilities

SKILLS

Languages: Python, C, Java, C#, JavaScript, HTML, CSS, SQL, MATLAB

Tools and Frameworks: .NET framework, GitHub, Git, Angular, MySQL, Scikit-learn, Tensorflow, Keras, MongoDB, Express.js, Azure, Docker, Hadoop, Spark, Node, Mockito, JUnit

EDUCATION

Bachelor of Electrical and Biomedical Engineering (Co-op)

Graduated: April 2021

McMaster University, Hamilton, ON

- Best electronic hardware device awarded by the Electrical and Computer Engineering (ECE) department for the final year capstone project

EXTRACURRICULAR ACTIVITIES

Vice President - Media

October 2019 - April 2020

McMaster Planetary Society, Hamilton, ON

- Worked in a team of 7 other executives to plan and host events that align with the club values such as space industry nights and trivia nights
- Promoted events through various social media platforms such as Instagram, Facebook and Twitter. Increased the club's social media reach by 75% and event attendance by 50%