

HUSSAIN FATHI



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WORK EXPERIENCE

Data Engineer

Feb 2022 - Present

CIBC, Toronto, ON

- Took part in an Agile environment to support the development of curated data assets in Data Lake and Data Warehouse to aid in operational reporting, data science and self-service analytics
- Created ETL pipelines to aid in the migration of financial transactions of over 11 million users from on-premise HDFS storage to Azure Data Lake Storage using Azure Data Factory, Azure Databricks and SQL MI
- 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 five times on non-partitioned delta tables
- Constructed multi-layered transformation logic and various complex mappings using PySpark DataFrames as well as writing complex SQL queries to assist with the testing of the logic

Software Engineer

July 2021 - Jan 2022

LatAm Startups, Toronto, ON

- Developed RESTful APIs 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

Master of Science in Computer Science

Expected Graduation: December 2025

Georgia Institute of Technology, Atlanta, GA

- Specializing in Machine Learning and Big Data

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