Souleiman Ayoub

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WORK EXPERIENCE

Ask Locala Montreal, Canada Data Engineer September 2024 - Present

Designed, developed, and deployed Apache Airflow DAGs for streaming / CDC data pipelines, utilizing Databricks Unity Catalog for efficient table ingestion and processing

- Proactively proposed and implemented improvements to the data architecture, enhancing scalability and efficiency of data workflows
- Took ownership of end-to-end data product development, ensuring high-quality deliverables while utilizing **Terraform** for managing external locations

Nasdag - ExcelGens Inc.

Montreal, Canada

Data Engineer (Contract)

January 2024 – September 2024

- Spearheaded ETL and CDC solution development, optimizing data workflows with technologies like **Databricks** on AWS
- Refactored team code for production readiness, specializing in big data processing using Delta Lake and PostgreSQL
- Collaborated cross-functionally to ensure efficient project delivery and adherence to industry standards

Deloitte - Omnia Montreal, Canada

Data Engineering Consultant

January 2022 – December 2023

During my journey at Deloitte, I've mainly contributed to three projects

- Developed successful logic apps, function apps and pipelines on Azure that allowed a government entity to migrate and modernize their infrastructure
- Delivered successfully on the frontend, backend and devops side of a webapp that showcases the datasets owned by a banking institution
- Led the development team for a platform that leverages **blockchain** technology to allow clients to profit from their underutilized datasets

Designations Group Montreal, Canada Data Science May 2021 – August 2021

Designed a Flask microservice which has an unsupervised model that can consolidate the financial profile of multiple users to offer recommendation

- Presented our team's work multiple times to Desjardins partners and Guy Cornier.
- Explored multiple approaches to address the need for data, including creating proprietary datasets, utilizing public datasets and exploring APIs

Mitacs - Eduplan Solutions

Montreal, Canada

Data Science

May 2020 – August 2020

- Created multiple ML models in **Python** whose purpose was to recommend means and goals to students then compare them with each other thanks to performance metrics
- Communicated with the client to align on the project vision, manage expectations, and explain the different possibilities available with the available resources
- Extracted information from the database by using **SQL**

EDUCATION

Polytechnique Montreal

Montreal, Canada

Bachelor (B. Sc.) in Software Engineering

CERTIFICATIONS

- Recipient of the **AWS** Certified Machine Learning Specialty certification
- Recipient of the AWS Cloud Practitioner certification

- Mention of Excellence for outstanding performance at Polytechnique Montreal
- Recipient of the Admission Excellence Scholarship at Polytechnique Montreal

- 2nd place in a Polytechnique pitch competition
- 2nd place in a math competition at College Bois-de-Boulogne (COMC)

SKILLS

SOFTWARE DEVELOPMENT

Main Programming Languages: Python, TypeScript, Java, JavaScript, HTML/CSS

Other Programming Languages: C++, C, Bash, Solidity, Kotlin, Rust

Data Engineering Technologies: Databricks, Pyspark / Apache Spark, Azure (Logic Apps, Function Apps, Synapse, Storage Accounts, APIM, Service Bus), AWS (Lambda, S3, ECS, EC2, Dynamodb, OpenSearch, Snowflake), Pandas, Docker, Kubernetes, SQL, Postman, Trino, Firebase

Other Technologies : React, React-Native, Angular, Redux, Django, Flask, Git, Gitlab, Github, Node, p5.js,

Bootstrap, Ionic, Tensorflow, Keras

Databases: PostgreSQL, SQLite, MongoDB, DynamoDB, Firebase

Languages: French, English

PROJECTS

MEV bot

 Wrote and deployed a liquidation bot in NodeJS which interacts with smart contracts on the Ethereum mainnet

Exo Computer Vision Project

- Developed a machine learning algorithm as a team to estimate the approximate occupancy rate of parking lots using recordings from multiple cameras per lot
- Used various technologies such as PyTorch, TensorFlow and a PostgreSQL Database

Chess Al

- Developed a Python chess engine featuring a machine learning bot, built from scratch, for playing against and an Alpha-Beta pruning bot.
- Employed several design patterns including Memento, Strategy, and Singleton in my implementation

Cross-platform multiplayer Gartic Phone

- Developed a version of Gartic phone usable on Android and PC where a player could play against a human or virtual opponent
- Built a NodeJS backend and used WebSocket alongside GraphQL to enable a multiplayer mode

HACKATHONS

Dev: Google Tech Challenge / HackQC (3 days) / Hackathon BDC

AI: McGill Physics Hackathon (on GitHub - 4th place) / AI Hackathon at UdeM (6th place) / ConcordAI Artificial Intelligence Hackathon / LHGames

Security: 2 Capture the Flag (security hackathons)