Mahdi SHEIKH ISSA

PROFILE

Artificial Intelligence Engineer with over four years of freelancing experience in developing cutting-edge solutions. Expertise in front-end mobile apps **Flutter**, back-end systems **Django**, and database management **MySQL**. Proficient in **AI/ML**, deep learning, and Python programming, with a track record of deploying functional websites. Familiarity with Apache Spark and **Scala** for big data tasks. Committed to delivering scalable, efficient tech solutions.

CONTACT DETAILS

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LANGUAGES

English: (fluent)
Arabic: (native)
German: (A2)

TECHNICAL PROFICIENCIES

- **Data Engineering**: Apache Spark, Kafka, Airflow, Scala
- **Machine Learning**: TensorFlow, PyTorch, Computer Vision, NLP
- **Cloud/DevOps**: AWS (EMR, S3, SageMaker), Docker, Jenkins
- **Backend Development**: Django, Flask, PostgreSQL, Redis

EXPERIENCE

JUNIOR DATA ENGINEER | TECHSCALE SOLUTIONS
2023.11–2025.10

- Built customer analytics pipeline using Apache Spark and Airflow. The project required working closely with business stakeholders, which was a key factor in delivering meaningful datasets that directly impacted decision making.
- Refactored some Oracle EPM pipelines to Python Pandas ingestion scripts together with Apache Spark downstream. The pipelines were scheduled using Apache Airflow, and the data was stored in S3 buckets. Data storage was done by exporting data to Redshift, which made it available to the analytics team, which was the main stakeholder for this project.
- Implemented different services for ingesting data from different APIs. The implementation was done using Python. The solution focused on building an abstract ingestion framework with YAML configuration files to ingest data from different APIs that followed a pagination-based querying method.

SOFTWARE ENGINEER (AI AND MACHINE LEARNING) | FREELANCE WORK
2020.02–Present

- **Legal Firm e-solution**: with two other engineers, built a software solution tailored to help analyze and process their legal documents using BERT models. The work involved development and deployment pipelines using GitHub Actions, Pipeline Scheduler (Airflow), and an interface to scan and upload documents.
- **Consultant at SonarLeague**: At SonarLeague, helped building different risk analysis back-end services in Scala and Java. The user interface was used to insert different risk rules and criteria, which were sent to the back-end service that applied the rules in the trading data. The project helped the company better understand the risks by having a risk score, which directly contributed to their energy trading system. (I was not involved in the energy trading part, only in the risk software development.)

BACKEND ENGINEER | IXCODER
2021.02–2022.12

- Developed a Flask API for 50k+ daily users, collaborating with frontend teams to ensure robust endpoint functionality.
- Integrated Redis caching for API endpoints (user sessions, frequent queries), reducing peak traffic response times.
- Designed JWT/OAuth2 authentication middleware to secure critical API endpoints.
- Optimized SQL queries cutting response time by 15%.

EDUCATION

ARAB INTERNATIONAL UNIVERSITY, BACHELOR OF SCIENCE IN ARTIFICIAL INTELLIGENCE ENGINEERING. **2019 – 2026**

PICKED PROJECTS

OIL SPILL DETECTING IN OCEANS SYSTEM.
https://github.com/m-issa9/oilspill-app

AI MUSIC PLAYER.
https://github.com/m-issa9/Ai-Music-Player

LARGE LANGUAGE MODEL-FROM SCRATCH
https://github.com/m-issa9/LLM-FromScratch