

Education

Honoris United Universities

Masters in Computer Science (Cloud Computing & Data Science)

Skills: Python, SQL, NoSQL, ETL Processes, AWS/GCP/Azure/Heroku, Docker, Kafka, Zookeeper, HDFS, CDC Pipelines, Data Warehousing, Shell Scripting, Linux, R.

Work

Experience

5+ years

Bookshelved, California (US)

Data & Recommendation System Engineer

May 2023 – now

- I specialize in developing state-of-the-art recommendation algorithms that enhance user experiences by providing tailored content and product suggestions. My expertise lies in handling vast datasets, designing and implementing machine learning models, coding recommenders and seamlessly integrating them into platforms to offer real-time, impactful recommendations.

Intellectual Wave, California (US)

Data Engineer

Aug 2021 – May 2023

- Engineered a scalable data pipeline using Python to efficiently crawl, accumulate, and structure multimedia databases.
- Optimized database queries through normalization and indexing, while managing HDFS-based cloud storage for high availability and rapid multimedia retrieval.

Power Maroc (#1 IBM Business Partner in Morocco), Casablanca

Data & Infrastructure Engineer

Aug 2018 – Aug 2021

- Pioneered the migration of the principal Tax Ministry platform, introducing the first IBM Linux One Mainframe in Africa/Asia, ensuring high availability with IBM Db2 Purescale and Oracle RAC + Goldengate.
- Orchestrated the BI platform overhaul for the Tax Ministry, integrating IBM Cognos Analytics, IBM DB2, and redesigning the entire ETL with IBM Infosphere DataStage.
- Led the design, implementation, and migration of a supercomputer cluster for the Moroccan Meteorological Ministry, encompassing 250 nodes and a suite of technologies including VMWare, IBM Spectrum Scale, and containerization tools like Docker/Kubernetes. Monitoring using Elasticsearch/Grafana/Prometheus.

Oracle, Casablanca

Data Engineer Intern

Jun 2017 – Sept 2017

- Assisted in database design, query optimization, routine maintenance, and troubleshooting to ensure performance, data integrity, and availability.

Publications

(Paper) **The Idea Gene: An Evolutionary Framework for Scientific Discovery**

(Paper) **Bridging Architectural Gaps: Running IBM AIX on Intel Systems**

Awards

IBM Champion 2024 in Data & AI (Awarded by IBM)