

Ahmed MAKROUM

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Profile

State Engineer specialized in Data Engineering, I build reliable pipelines and automate data flows to turn data into actionable insights. I design systems that help teams work more efficiently and make better decisions. Currently seeking a position to contribute to real-world projects.

Experience

Data Engineer, Metaverse Sept 2025 – Present

- Designed modular data architectures on GCP, AWS, and on-premise, standardizing client deployments and reducing setup times
- Automated infrastructure using Terraform, eliminating manual configuration and enabling scalable environment deployment within minutes

Internship – Data Engineer, Allianz Maroc Mar 2025 – Sept 2025

- Designed and deployed NiFi-Spark pipelines integrating multiple internal sources into a unified PostgreSQL warehouse, creating a centralized and reliable business data foundation
- Automated data extractions for business teams, eliminating manual requests and reducing report delivery times from several hours to a few minutes
- Developed an interactive reporting solution using Metabase, enabling users to configure their own dashboards and access key metrics in self-service
- Built a microservices-based health claims management application (Spring Boot, Next.js) with secure authentication and granular roles, used daily by 50+ business users

Internship – Data Engineer, Boti School Jun 2024 – Aug 2024

- Developed an Apache Beam pipeline on GCP to process and aggregate usage logs stored in GCS buckets, enabling accurate tracking of user consumption
- Built a data warehouse on BigQuery, centralizing usage metrics and internal billing calculations per user
- Created dynamic dashboards in Looker Studio for the finance team, providing real-time cost visibility and reducing report generation time from several hours to a few minutes

Internship – Développeur Web et Mobile, 6Solutions Jun 2023 – Aug 2023

- Developed a multi-service consulting platform (legal, medical, financial), providing a centralized solution for diverse client needs
- Built the front-end with Angular and the back-end with Spring Boot, ensuring a consistent and cohesive web architecture
- Designed and deployed the mobile version of the application using Flutter, enabling seamless access to services from any device

Internship – Game Developer, Finso Jul 2023 – Aug 2023

- Developed an educational game for children, introducing management and strategy concepts in an interactive way
- Built the project with Unity, featuring interactive gameplay, polished animations, and a child-friendly interface to ensure an engaging experience for young users

Education

EMSI – École Marocaine des Sciences de l'Ingénieur, Master's degree in Software Engineering and Networks Sept 2020 – Mar 2025

Skills

Data Engineering & Cloud: Spark, NiFi, dbt, Databricks, Airflow, Kafka • GCP, AWS, Docker, Terraform, DataOps
Programming & Databases: Python, SQL, Java • PostgreSQL, Hive, MongoDB, Cassandra