

BRAHIM DARGUI

Data Engineer

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PROFESSIONAL EXPERIENCE

Data Engineer (PFE — Final Year Project) — Ynov Campus Casablanca Nov 2025 – Feb 2026

- Designed an end-to-end streaming architecture to transform raw retail data into real-time demand predictions and optimize stock management.
- Processed 3M+ Instacart orders with end-to-end latency under 5 seconds; ClickHouse queries ran 10x faster than MySQL on identical workloads.
- Implemented ML demand forecasting using Random Forest (Scikit-Learn) Live dashboards built with Streamlit and Power BI.
- Tracked full data lineage with Marquez / OpenLineage. Containerized 6 services with Docker Compose.
Stack: NiFi · Kafka · ClickHouse · MongoDB · Python · Streamlit · Power BI · Docker

Web Project Manager — Ejahiz Agency (eJAHIZ) Nov 2022 – Jul 2025

- Managed and maintained web servers and databases (MySQL, MariaDB) for multiple clients.
- Diagnosed and resolved complex technical issues across infrastructure and data layers.
- Led full-cycle web projects: requirements analysis, development, delivery, and client management.

Web Project Manager — Yiqie Maroc Apr 2021 – Jun 2022

- Administered a MySQL database for an e-commerce platform: products, customers, and order management.
- Extracted and analyzed sales data to track business performance indicators.

Web Developer & Integrator — Freelance Nov 2014 – Mar 2021

- Odoo ERP integration (POS): cloud deployment on DigitalOcean & Vultr, module configuration, PostgreSQL administration.
- Built e-commerce websites, maintained Linux servers, and delivered full-stack web solutions.

Previous Experience (2008–2014): IT & Network Technician — La Maison De La Ménagère, Abelmo Electronique, Souss Net (Agadir)

TECHNICAL SKILLS

Data Engineering & ETL: Python (Pandas, NumPy, Matplotlib), Talend, Power BI, Machine Learning

Big Data: Hadoop (HDFS, MapReduce), Spark, Kafka, NiFi, Hive, HBase, Zookeeper

Cloud & DevOps: AWS, Azure, DigitalOcean, Docker, Git, GitLab, CI/CD

Databases: ClickHouse, MongoDB, MySQL, MariaDB, Redis, PostgreSQL

Development & ERP: PHP (Laravel), Odoo (Technical & Deployment), Linux

Soft Skills: Problem solving, Business needs analysis, Client relations, Project management

DATA PROJECTS

- Real-Time Streaming & Analytics Pipeline** (NiFi, Kafka, ClickHouse, MongoDB, Streamlit, Power BI, Docker)
End-to-end real-time architecture (PFE) for ingesting the Instacart dataset (3M+ orders), storing data in ClickHouse (10x faster than MySQL), and delivering live KPI dashboards. Includes ML demand forecasting and OpenLineage data lineage tracking.
- ERP Migration & Data Quality** (Talend, PostgreSQL, Odoo)
Designed complex ETL flows for migrating a full ERP database from Odoo v15 to v19 — referential integrity management, data cleaning, and reject processing. Zero data loss across 50,000+ records.
- Real-Time Streaming & Caching Pipeline** (Kafka, NiFi, Redis)
Designed a real-time ETL pipeline orchestrating ingestion and multi-database synchronization (MySQL, MongoDB) with Redis caching for hot data.

EDUCATION

Data Engineer Training · Ynov Campus Casablanca Sept 2025 – Feb 2026

Professional Bachelor's — Computer Systems & Software · Université Aix-Marseille 2013 – 2014

DTS — Computer Systems & Networks · ISTA Agadir 2007 – 2009

LANGUAGES

French: Professional · **English:** Professional working · **Arabic:** Native · **Tamazight:** Native