

Nader Ben Salah

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PROFILE

Data engineer focused on building production-grade pipelines, scalable data systems, and applied ML services.

EDUCATION

Data science engineering,

Faculty of Science Tunis Manar

09/2024 – present | Tunis, Tunisia

Integrated preparatory MPI, Faculty of Science Tunis

09/2022 – 05/2024

PROFESSIONAL EXPERIENCE

Data engineer intern, Talan Tunisie ☑

06/2025 – 08/2025 | Tunis, Tunisia

- Built GitKnow, a GitHub knowledge base and recommendation system. Designed a database architecture, implemented repository similarity recommendations, and delivered a containerized system with AWS Terraform migration.

Tech: Kafka, Spark, NLP, Neo4j, MongoDB, Docker, AWS, Terraform

Front-end developer, Demarky ☑

12/2025 – Present | freelance

Implemented visual editor components for an AI-driven e-commerce landing page builder, including dynamic card controls and layout-safe interaction elements

Key technologies: Web design, React, Supabase

Co-founder, Carthaplay ☑

02/2024 – 09/2025

Built an educator game platform at Carthaplay, leading data strategy, game analytics pipelines, Unity development, and partnership management.

Key Technologies: Data Pipelines, Unity, SCRUM

Software Developer Intern, Mir-acle ☑

08/2024 – 09/2024

Built data tools at a biomedical startup, engineering data pipelines, optimizing solutions for research data access and visualization.

Key Technologies: React, Django, PostgreSQL, Pandas

LANGUAGES

English, French, Arabic

AWARDS

2nd place - Next BH hackathon, BH assurance

Statut national étudiant entrepreneur,

Pôle étudiant entrepreneur

3rd Place - ML Night, GDSC FST

ORGANIZATIONS

IEEE Computer Society Chapter, Chair Person

Optima Junior entreprise,

Junior business development consultant

PROJECTS

Next deal ☑, AI-Driven Client Engagement & Sales Platform (BH Assurance)

- Built a compliant conversational AI platform for insurance sales with RAG on proprietary data, Human-in-the-Loop workflows, and multi-channel pipelines.

Key Tech: LLMs, RAG, MongoDB, Docker, Langchain

Supporai, Customer support agent

Built an AI sales agent for automating customer interactions and lead qualification through conversational workflows.

Key technologies: RAG, AI Agents, LLM, Supabase, FastAPI

AI Career Assistance Platform, TSYP CS Challenge

Architected and deployed a modular AI career platform on GCP, managing data pipelines across ChromaDB, Firestore, and Cloud Storage.

Key technologies: GCP, Docker, ChromaDB, Firestore, LangChain, Python, Flask

E-commerce Big Data Pipeline ☑

- Built a containerized big data pipeline for Amazon e-commerce data, enabling scalable data warehousing, secure storage, and real-time analytics.

Key Technologies: PostgreSQL (Citus DB), Docker, Hadoop, Spark, Power BI

Web app Deployment on AWS

Deployed a highly available AWS web app using multi-AZ VPC, ALB, EC2 Auto Scaling, and RDS with standby for scalability, security, and fault tolerance.

Global Job Market Analysis, ETL & BI Project

Built an ETL pipeline to consolidate multi-source job data into a data warehouse and created dashboards to analyze hiring trends.

Key technologies: SSIS, SSMS, SQL Server, Power BI

CERTIFICATES

AWS Academy Graduate - AWS Academy Cloud Foundations ☑

Formationen Intelligence Artificielle et Apprentissage Automatique: Virtual University of Tunis

Databricks Fundamentals ☑

Nvidea Deep Learning Fundamentals ☑

SKILLS

AI & ML: Python, Pandas, Numpy, Matplotlib, RAG, Langchain, Pytorch, Tensorflow

Database: SQLServer, PostgreSQL, Mongo DB, Chroma DB, Neo4J

Web development: React, Django, FastAPI, Restful APIs

Data engineering: Spark, Hadoop HDFS, Kafka, AWS Glue, AWS EMR, Databricks

Cloud & deployment: Docker, Docker compose, AWS platform, Terraform

Business intelligence: PowerBI, Microsoft SSIS, ETL