

Walid Mohamed KESSOUM

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PROFILE

Network and Telecommunications Engineer. Passionate about telecom projects, networking, development, and performance optimization. I am currently seeking a full-time job opportunity.

EXPERIENCE

Djezzy

Network Data and Performance Engineer (Apprenticeship)

Oct. 2024 – May. 2025

Algiers, Algeria

Designed and deployed a scalable PostgreSQL data warehouse to centralize multisource network data.

Automated robust ETL pipelines using Python and Apache Airflow for daily data ingestion, cleaning, and normalization from Huawei, Nokia, and ZTE systems.

Implemented and optimized LSTM models for forecasting critical LTE network KPIs.

Developed a Django backend interface for predictive model management and built an interactive real-time dashboard for monitoring network performance.

Sonatrach

Network Analyst (Internship)

Feb. 2024 – Apr. 2024

Algiers, Algeria

Conducted in-depth analysis of industrial SCADA and VoIP network architectures to enhance data flow security and reliability.

Developed automation scripts and tools to collect and analyze network metrics, enabling proactive maintenance.

Algérie Telecom

FITTH Network Engineering Assistant (Internship)

Mar. 2023 – Apr. 2023

Blida, Algeria

Participated in FITTH infrastructure deployment, including fiber optic splicing and OTDR diagnostic testing.

Performed corrective and preventive maintenance on physical network equipment.

FORMATION

Sup Galilée - Université Sorbonne Paris Nord

Sep. 2025, Present

Networking and Telecom Engineering

Villetaneuse, France

École Nationale Supérieure de Technologie Avancée (ENSTA)

Jun. 2025

Engineering Degree in Telecommunications and Network Systems

Algiers, Algeria

PROJETS

Final Year Project: Data-Driven Framework for LTE Network Performance Optimization (Djezzy, ENSTA)

Oct. 2025, Jun. 2025

Algiers, Algeria

Designed a PostgreSQL data warehouse, automated ETL pipelines (Python, Airflow), developed and optimized LSTM models for KPI prediction, and built a Flask backend with a real-time interactive dashboard.

Huawei ICT Competition – Global Third Prize (Innovation Track)

May. 2025

Shenzhen, Chine

Developed and presented an AI-based portfolio management solution using Huawei Cloud. Implemented client segmentation, predictive modeling, and a scalable, secure architecture with ModelArts and Flask API for real-time forecasting.

SKILLS, CERTIFICATIONS AND INTERESTS

- **Certifications:** Huawei ICT Competition (Award Winner), Google Cybersecurity, Google IT Automation with Python, Google IT Support, Google Cloud Engineering
- **Technical Skills :**
 - Programming: Python (Flask, Django, Pandas, NumPy, Scikit-learn), Java OOP, C/C++, SQL (PostgreSQL), HTML/CSS, JavaScript
 - Data & ML : ETL, Airflow, LSTM, Data Warehousing, Time Series Forecasting
 - Software : Git, Docker, MATLAB, HFSS, Proteus, Packet Tracer, Wireshark, VS Code
 - Hardware : Arduino, Raspberry Pi, STM32
 - Bureautique & Design : MS Project, Photoshop, Premiere
 - OS : Linux, Windows
- **Soft Skills :** Strategic Planning, Teamwork, Time Management, Teaching
- **Languages:** Arabic (Native), French (Fluent), English (Fluent)
- **Interests:** Camping, Traveling, Sports, Reading, Cultural Exploration, Photography, Nature & Adventure