Riadh Ibrahim

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EDUCATION

National Institute of Applied Sciences and Technology — INSAT, Tunis
Computer Networks and Telecommunications Engineering — *2021 – 2026*

Souassi Secondary School — Souassi, Mahdia
Baccalaureate Diploma, 18.29/20 — *2021*

EXPERIENCE

AI Developer — Aug 2025 – Present
Calgra Group — *Edinburgh, UK (Remote)*
- Developed AI-driven solutions to optimize business processes using machine learning.
- Designed scalable AI pipelines for real-time data processing.

AI Intern — Jun 2025 – Jul 2025
Talan - Tunisie — *Tunis*
- Built AI pipeline for marketing, integrating predictive models for customer behavior.
- Pitched innovative AI solutions, enhancing team strategies.

Software Development Intern — Jul 2024 – Sep 2024
Macro-it.com — *Tunis*
- Created "EVE-BOOK", a web-based VM reservation interface.
- Automated EVE-NG lab setup using Ansible for efficient SSH access.

PROJECTS

Enhanced RouteNet Model | *PyTorch, TensorFlow, Optuna* — 2025
Research Paper
- Enhanced RouteNet with attention mechanisms, improving predictive accuracy.
- Optimized hyperparameters using Optuna, achieving high R^2 and low MAPE.

YOLO Fine-Tuning for Animal Pose Estimation | *Python, YOLO, PyTorch* — 2025
- Fine-tuned YOLO-pose on Horse-10 dataset, boosting accuracy by 12%.
- Improved performance via hyperparameter tuning and data augmentation.

Microservices Load Prediction for Resource Optimization | *Docker, Kubernetes, LSTM, Locust, Git* — 2024
- Deployed microservices on Kubernetes with LSTM-based dynamic pod scaling.
- Enhanced resource efficiency through predictive load modeling.

TECHNICAL SKILLS

AI & Machine Learning: LangGraph, LangChain, ChromaDB, Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch, YOLO, LSTM, CRISP-DM
Web Development: HTML, CSS, JavaScript (Node.js, Express.js, NestJS, React, Next.js), MySQL, PostgreSQL, MongoDB
Programming Languages: JavaScript, TypeScript, Python
Containers & Orchestration: Docker, Kubernetes
CI/CD Tools: Jenkins, GitHub Actions
Monitoring & Data Visualization: Telegraf, InfluxDB, Grafana, Prometheus

CERTIFICATIONS

- **AWS Certified Machine Learning Engineer – Associate**
- **AWS Certified Solutions Architect – Associate**
- **AWS Certified Cloud Practitioner**
- **Efficient Large Language Model (LLM) Customization – NVIDIA**
- **Fundamentals of Accelerated Computing with CUDA C/C++ – NVIDIA**
- **Scrum Fundamentals Certified**
- **EF SET English Certificate – C1 Advanced**