

# Wael Hcine Fullstack Developer | Data Engineer

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## Profile

Results-driven Fullstack Developer with expertise in end-to-end software development, data engineering, and AI/ML model deployment. Proven track record of architecting scalable web applications using Angular, Spring Boot, and Node.js, while building robust data pipelines with Apache Airflow and Apache Spark. Adept at cloud deployment using Azure (Container Apps, Web Apps), Docker, and Kubernetes, with hands-on experience in CI/CD automation, computer vision applications, team management via Jira, and IT system administration

## Professional Experience

### Full-Stack Engineer, Perf Analysis Consulting

04/2025 – Present

- Architected and delivered sports analytics web applications using **Angular, Node.js, Spring Boot, Python**, and optimized **GraphQL/REST APIs**, enabling real-time metrics for thousands of users.
- Built and maintained **ETL pipelines** for ingesting raw sports data, reducing processing time by 30% and improving cloud deployment performance on **PostgreSQL**.
- Developed and trained **PyTorch computer vision models**, converted them to **ONNX**, and deployed them in production using **WebGPU** for live video analytics.
- Implemented fully automated **CI/CD pipelines** using Azure, Docker, GitHub Actions, and Kubernetes, improving deployment speed and reliability.
- Managed **Jira** workflows, sprint boards, and GitHub processes to enhance team efficiency and code delivery throughput.

### Data Analyst Intern, IP-Label

02/2024 – 08/2024

- Designed and executed **data quality checks** ensuring accuracy of financial and Azure resource datasets.
- Performed analytical modeling and forecasting for Azure resource consumption, reducing operational expenses by 15%.
- Built interactive **Power BI** dashboards visualizing cloud performance, resource usage, and financial trends.
- Optimized data extraction from **Azure Data Lake** using **SQL** and automated **ETL workflows**.
- Monitored Azure resource behavior, identifying patterns that improved performance and cost management.

### Business Intelligence Intern, IP-Label

07/2023 – 09/2023

- Developed **Power BI** dashboards to improve visibility into operational and customer-facing performance metrics.
- Collaborated with cross-functional teams to analyze business issues using data-driven insights.
- Automated repetitive reporting tasks using **Power Automate**, enhancing efficiency and reducing manual workload.
- Managed SLA monitoring processes to ensure service reliability and performance optimization.

## Projects

### FPL Insights

- Developed a **data-driven web application** to optimize Fantasy Premier League (FPL) strategies using **Python, Streamlit, and XGBoost**.
- Integrated **advanced analytics** for player comparisons, trend analysis, and performance tracking.
- Implemented **machine learning models** to forecast player performance, enhancing decisions on captaincy and transfers.

### Fantasy Premier League (FPL) Data Warehouse & Analytics Platform

- Engineered a **scalable end-to-end data warehouse solution** capable of ingesting and processing over **1 million data points weekly** from the FPL API, utilizing **Docker, Apache Spark, and PostgreSQL**.
- Constructed a **fully automated ETL pipeline** with **Apache Airflow** that ensured **99.9% data availability** and freshness for analysis.
- Developed a **predictive XGBoost model** within a **Python/Streamlit web application** that improved users' strategic decision-making for player transfers and captaincy.

### World development indicator dashboard

- Designed and implemented an **ETL process** using **Talend** to integrate diverse datasets from global development sources into a centralized reporting structure.
- Created a suite of **interactive Power BI dashboards** that visualized complex economic and social trends, making global data accessible to a wider audience via an integrated website.

## Skills

### Fullstack Development

Angular • Spring Boot • Node.js • TypeScript • JavaScript • HTML/CSS • REST APIs • GraphQL • Flask

### Cloud & DevOps

Azure • AWS • GCP • Docker • Kubernetes • GitHub Actions • CI/CD Pipelines • Git • Jira

### Data Engineering & ETL

Apache Airflow • Apache Spark • Kafka • Hadoop • Talend • SSIS • Data Warehousing • Data Modeling • ETL Pipelines

### Databases

PostgreSQL • Supabase • MongoDB • MySQL • SQL Server

### Programming & Scripting

Python • R • SQL • Bash • PowerShell

### AI & Machine Learning

Computer Vision • Neural Networks • Scikit-learn • TensorFlow • PyTorch • XGBoost • ONNX • OpenCV

### Business Intelligence & Visualization

Power BI • Tableau • Metabase • Excel • Power Automate

### IT Systems & Team Management

Azure Active Directory • System Administration

## Certificates

- Google Data Analytics
- Google Business Intelligence
- AI For Everyone
- Neural Networks and Deep Learning

## Education

### Business Intelligence Engineer, ESPRIT

2019 – 2024

- Focused on core competencies in data warehousing, ETL processes, machine learning principles, and full-stack application development

## Languages

English (Fluent) • French (Fluent) • Arabic (Native)