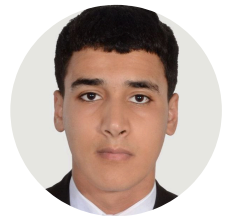


ABDELHAMID BAHOU

Software Engineer

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PROFILE

Final-year **Master's student in Big Data & IoT** at ENSAM Casablanca, with a strong interest in cloud-native architectures and distributed systems. I am proficient in Python, distributed systems, and **DevOps** tools such as **Docker**, **Kubernetes**, and **CI/CD**. I am seeking a 4 to 6-month internship starting February 2026, to contribute to the deployment and industrialization of robust and scalable solutions.

EDUCATION

- **09/2024 - Présent**
Casablanca, Morocco
Master in Big Data & Internet of Things
ENSAM Casablanca
 - AI frameworks (TensorFlow, PyTorch) and Big Data tools (Spark, Hadoop).
 - Specialization in scalable data pipelines, machine-learning model and IoT stream ingestion.
- **09/2023 - 06/2024**
El jadida ,Morocco
Professional Bachelor's Degree in Computer Science and Applied Mathematics
Faculty of Sidi Bennor
 - Training focused on database management (SQL, PL/SQL)
 - System and service administration, with a foundation in cybersecurity
- **09/2021 - 06/2023**
Essaouira,Morocco
Higher Technical Diploma (BTS)
Mohammed VI High School
 - Virtualization,network infrastructure management and CCNA: Routing & Switching.
 - Linux administration (LDAP, DHCP, DNS, Postfix, Apache) and Windows (Active Directory, DHCP Server, IIS).

EXPÉRIENCE

- **04/2024 - 06/2024**
Casablanca, Morocco
Final Year Internship – IT Security
MPEtechnologie
<https://mpetechnologie.com/>
 - Developed a WordPress website to present the company's services.
 - Designed, configured, and deployed a robust network security strategy using FortiGate to protect MPE Technology's infrastructure against modern cyber threats.
 - Activated and configured advanced features such as DLP (Data Leak Prevention), IPsec VPN, and SD-WAN.
- **05/2023 - 07/2023**
Casablanca, Morocco
Internship – Network Technician
Intelcia IT Solutions
<https://www.intelcia.com/>
 - Monitored systems and network infrastructure using Zabbix.
 - Proactively managed support tickets to ensure fast and effective incident resolution.
 - Installed, configured, and administered GLPI.
 - Performed hardware maintenance and troubleshooting.

PROJETS

Named Entity Recognition in Electronic Medical Records

<https://github.com/abbahou/MedicalEntityExtractor>

Streamlit application for Named Entity Recognition (NER) in French medical texts, based on a fine-tuned DrBERT model.

- Built a web interface for real-time analysis of clinical texts.
- Created interactive visualizations: entity distribution, confidence scores, entity maps.
- Explored and evaluated several approaches (traditional ML and transformer models) in a dedicated notebook.
- **Technologies used: Python, Streamlit, DrBERT, Transformers, Pandas, Matplotlib.**

Pharmacy Management System

<https://github.com/abbahou/chms>

Designed a desktop pharmaceutical management application using **Java 21** and **JavaFX**.

- Developed the software architecture (entity modeling, **UML diagrams**, **MVC structure**).
- Implemented **CRUD** functionalities.
- Technologies used: Java 21, JavaFX, MySQL, Maven, UML, MVC.

SKILLS

Programming Languages

Python, Bash, Flask, Java, JavaFX, Spring Boot, C, JavaScript,

DevOps

Docker, Kubernetes, Git/GitHub, Jenkins, Grafana, Zabbix.

SKILLS

Big Data

Spark, Hadoop, Kafka, Flink, Hive, HDFS.

Databases

PostgreSQL, MongoDB, MySQL, PL/SQL.

Software Tools

VS Code, IntelliJ, Jupyter, PowerBI, UML, Jira, Agile/Scrum, GLPI.

CERTIFICATIONS

AWS Academy Cloud Foundations

AWS Academy

[attendance certificate] Docker Essentials & Kubernetes Mastery

Orange Digital center

LANGUAGES

ArabicNativeFrenchAdvancedEnglishAdvanced