Abdelilah IKBI

Cloud & DevOps Engineering Student at INPT, currently seeking a PFE internship

✉ abdeikbi200@gmail.com 📞 +212 625125152 in Abdelilah IKBI 📍 Based in Morocco | Open to international and remote opportunities

Education

National Institute of Posts and Telecommunications (INPT)
Engineering of Ubiquitous and Distributed Systems - Cloud and IoT
09/2023 – Present
Rabat

Lydex Preparatory classes
Technology and Industrial Sciences
09/2021 – 2023
Benguerir

Tassaout High School
Baccalauréat, Electrical Science and Technology (STE)
09/2020 – 2021
El Kelaa Des Sraghnas

Professional Experience

Cloud Infrastructure Intern
MAROC DATACENTER (MDC)
06/2025 – 08/2025
Temara
- Contributed to the design and deployment of an **automated private cloud** based on **VMware vSphere (ESXi, vCenter)**
- Set up **shared storage with TrueNAS** and automated VM provisioning through **Ansible (IaC)**
- Implemented the **DNS service**, real-time monitoring with **PRTG**, and backup/recovery using **Veeam**
- Strengthened infrastructure security with **Wazuh**, ensuring a **robust, centralized, and scalable cloud platform**

Projects

BoardGameListing Website - CI/CD, Kubernetes & AWS Deployment
- Built a full **CI/CD** pipeline for a Java Spring Boot app using **Jenkins**, **GitHub**, **SonarQube**, and **Trivy** to ensure code quality, continuous integration, and security
- Containerized and deployed the application on **Kubernetes (AWS EC2)** using custom **Docker** and **YAML files**
- **Tools used:** GitHub, Jenkins, Maven, SonarQube, Trivy, Nexus Repository, Docker, Kubernetes, Gmail, KubeAudit, Grafana, Prometheus

Local RAG (Retrieval-Augmented Generation) Microservices App
- Built a fully containerized local RAG system using FastAPI, Streamlit, and Ollama for offline document-based Q&A.
- Designed microservices for PDF parsing, embeddings, and LLM querying with a persistent vector database.
- Deployed via Docker Compose and optionally on Kubernetes for modular scalability.
- **Tools used:** Python, FastAPI, Streamlit, LangChain, Ollama, Docker, Kubernetes, Terraform, Prometheus, Grafana.

Azure Pet Store - Microservices, Serverless & Observability Architecture
- Deployed a full **Cloud & DevOps** architecture on **Microsoft Azure** for a Java Spring Boot **N-Tier application**, with backend on **AKS** and frontend on **Azure App Service**
- Automated **CI/CD** workflows via **Azure DevOps Pipelines** and **GitHub Actions** with integrated monitoring and security tools
- **Tools used:** GitHub Actions, Azure DevOps, AKS, Azure App Service, Azure API Management, Docker, Azure Container Registry, Application Insights, Azure Functions, Azure Service Bus, Bicep

Skills

Programming & Frameworks
- Python, JavaScript, FastAPI, Streamlit, REST APIs, LangChain

Version Control & Collaboration
- Git, GitHub, GitLab

Architecture & Automation
- Microservices, Cloud-Native Design, Backup & Recovery (Veeam)

Containerization & Orchestration
- Docker, Kubernetes

DevOps & CI/CD
- Jenkins, GitHub Actions, GitLab CI, CI/CD Pipelines, Docker Compose, Azure DevOps

Operating Systems & Networking
- Linux, Windows Server, DNS, VLAN, vSwitch

Databases
- MongoDB, Chroma (Vector DB), MongoDB Atlas

Monitoring & Security
- Grafana, Prometheus, Application Insights, Wazuh, PRTG, SonarQube, Trivy

Cloud & Virtualization
- AWS, Azure, VMware vSphere, OpenStack, TrueNAS

Infrastructure as Code (IaC)
- Terraform, Ansible, Bicep

Volunteering

Founder ↗
INPT Runners (INPT Student Running Club)
02/2025 – Present

Head of DevOps Cell
CIT Club (Computer & Telecom Club, INPT)
09/2024 – 05/2025

Vice President
MSC (Math & Science Club, INPT)
09/2024 – 05/2025

Data Collector – HCP Summer Campaign
Haut Commissariat au Plan du Maroc
08/2024 – 09/2024

Languages

- English
- Arabic
- French
- Tamazight