Zakaria Rekhla

DevOps & Cloud Native | Kubernetes & Docker | CNCF CERTIFIED

DevOps Engineer & Cloud Architect

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SUMMARY

Passionate DevOps Engineer specialized in Docker containerization, Kubernetes orchestration, and CI/CD automation. Proven expertise in cloud-native technologies with CNCF certification and hands-on experience deploying microservices applications. Proficient in continuous integration pipelines and infrastructure as code with a reliability and performance-focused approach.

EDUCATION

Master's in Information Systems Engineering — *2024-2026*
Faculty of Sciences Semlalia Marrakech (FSSM) — In Progress

- Mastery of development methodologies and information systems urbanization with quality assurance
- Development of intelligent workstation architectures integrated into complex information systems
- Training in software project management and advanced industrial programming environments

Professional Bachelor's - Information Systems & Networks Engineering — *2023-2024*
Higher School of Technology Safi — Honors

- Specialized in network architecture and system administration
- Strong foundations in software engineering and databases
- Distributed systems and applications

University Diploma of Technology - Computer Engineering — *2021-2023*
Higher School of Technology Safi — Honors

- Study and design of computer systems
- Development of computer systems
- Systems integration

EXPERIENCE

- **Higher School of Technology Safi** — *April 2023 - June 2023*
Internship - Software Developer — **Github**
  - Development of a comprehensive web platform automating library loan, return, and membership management with analytics dashboard and automated notification system
  - Technologies: Next.js, Node.js, TypeScript, MySQL, Prisma ORM, TailwindCSS, Git

- **Norsys Africa (Marrakech)** — *May 2024 - June 2024*
Internship - Full Stack Developer — **Github**
  - Design and development of interconnected mobile and web application for blood pressure monitoring with AI integration for predictive analysis and optimal health surveillance
  - Technologies: Next.js, Flutter, Laravel, Hugging Face, Python, Firebase, MongoDB Atlas, Docker, Git

- **Ministry of Health and Social Protection (Safi)** — *March 2024 - June 2024*
Internship - Full Stack Developer
  - Development of MedConnect: comprehensive web application for digitizing medical records and automated activity report generation for occupational health units
  - Technologies: Next.js, Express.js, MongoDB, JWT Authentication, Chart.js

PROJECTS

- **Room Reservation System - Microservices Architecture** — *2025*
Faculty of Sciences Semlalia Marrakech — **Github**
  - Design of a complete microservices platform for room reservation with JWT authentication and granular authorization
  - Technologies: Spring Boot, Spring Security, JPA/Hibernate, MySQL, Angular 16+, Docker, GitHub Actions, API Gateway, Spring Cloud

- **Distributed E-commerce Platform with Advanced Microservices Architecture** *2025*
  Self Made **Github**
  - Architected a cloud-native e-commerce ecosystem with 8 microservices using **Spring Boot** (**Java 17**) and **Go**, leveraging polyglot persistence (**PostgreSQL**, **MongoDB**, **Redis**) and **Apache Kafka** for event-driven communication
  - Implemented comprehensive DevOps pipeline with **Jenkins** CI/CD, GitOps deployment via **ArgoCD**, Infrastructure as Code using **Terraform**, and **Kubernetes** orchestration with 6 production-ready **Helm** charts
  - Designed secure API Gateway with **Spring Cloud Gateway** featuring **JWT**/**OAuth2** authentication, multi-level rate limiting (5-300 req/min), circuit breakers, and **Istio** service mesh for **mTLS** communication
  - Established complete observability stack with **ELK** for centralized logging, **Prometheus**/**Grafana** for metrics, **Zipkin** for distributed tracing, and **Kiali** for service mesh visualization
  - Deployed on **AWS EKS** with **Terraform**-managed infrastructure including **VPC**, **EBS** storage, and multi-environment support (dev/staging/production) with auto-scaling capabilities
  - Developed modern frontends: **React 18** + TypeScript admin dashboard with real-time analytics and **Next.js 14** customer portal.

- **TERRAP-POD - Water4Future Hackathon Winner** *2024*
  UNESCO & Cadi Ayyad University Hackathon **LinkedIn Post**
  - **1st Place Winner** at UNESCO and Cadi Ayyad University-sponsored hackathon among 20+ teams
  - Designed innovative modular vertical farming solution addressing Morocco's agricultural water challenges
  - Developed sustainable agriculture technology focused on water conservation and food security optimization

Technical Skills

DevOps & Cloud Technologies

- **Containerization:** Docker, Kubernetes, Docker Compose
- **CI/CD:** Jenkins, GitHub Actions
- **Cloud:** AWS (EKS, EC2, EBS, RDS), Firebase
- **IaC:** Terraform.
- **Monitoring:** Kibana , Grafana, ELK Stack

Systems & Infrastructure

- **OS:** Linux (Ubuntu), Windows
- **Networking:** TCP/IP, DNS, Load Balancing
- **Security:** SSL/TLS, OAuth2, JWT
- **Databases:** MySQL, PostgreSQL, MongoDB, Redis

Tools & Methodologies

- **Version Control:** Git, GitHub
- **Configuration:** YAML, JSON, Docker Compose
- **Methodologies:** Agile, Scrum, DevOps Culture
- **Scripting:** Bash, Python, PowerShell
- **API Management:** REST APIs, Microservices

Programming Languages

- **Backend:** Java, Go, Python, Node.js, Php
- **Scripts:** Bash, PowerShell, Python
- **Configuration:** YAML, JSON, XML
- **Web:** JavaScript, TypeScript, HTML/CSS

Certifications

- **CKA: Certified Kubernetes Administrator**
  Cloud Native Computing Foundation (CNCF)
- **KCNA: Kubernetes and Cloud Native Associate**
  Cloud Native Computing Foundation (CNCF)
- **LFS250: Kubernetes and Cloud Native Essentials**
  Linux Foundation
- **CCNA: Switching, Routing, and Wireless Essentials**
  Cisco
- **Introduction to Network Operation 1.0**
  Internet Society

Languages

- **Arabic:** Native
- **French:** Fluent (B2 Level)
- **English:** Professional (B2 Level)