

Zakaria Rekhla

DevOps Engineer & Cloud Engineer

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Based in Morocco | Open to International Opportunities

PROFESSIONAL SUMMARY

CNCF-certified DevOps Engineer with experience designing and deploying cloud-native microservices and scalable infrastructures. Skilled in Kubernetes, AWS, and CI/CD automation, with proven results in performance optimization and zero-downtime deployments. UNESCO Hackathon winner, available for 6-month international internships.

EDUCATION

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

- Specialization in development methodologies and information systems urbanization with quality assurance
- Advanced training in intelligent workstation architectures integrated into complex information systems
- Focus on 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, databases, and distributed systems

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

- Study and design of computer systems, development, and systems integration

PROFESSIONAL EXPERIENCE

•Norsys Africa (Marrakech) May 2024 - June 2024
Internship - Full Stack Developer GitHub

- Interconnected mobile and web applications for **blood pressure monitoring** with integrated artificial intelligence
- Integrated real-time health surveillance and automated alert systems for optimal patient monitoring
- 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

- Developed **MedConnect**: comprehensive web platform digitizing medical records for occupational health units, reducing manual processing time by **85%**
- Built secure authentication system with JWT and real-time analytics dashboard for automated activity report generation
- Technologies: Next.js, Express.js, MongoDB, JWT Authentication, Chart.js

•Higher School of Technology Safi April 2023 - June 2023
Internship - Software Developer GitHub

- Created complete library management platform with automated loan/return system, improving operational efficiency by **60%**
- Designed analytics dashboard with automated notification system and membership management capabilities
- Technologies: Next.js, Node.js, TypeScript, MySQL, Prisma ORM, TailwindCSS, Git

KEY PROJECTS

•NexusCommerce: Cloud-Native E-Commerce Ecosystem May 2025
Enterprise-Grade Microservices Platform GitHub

- Architected **8-microservice ecosystem** using **Spring Boot (Java 17)** and **Go** with event-driven architecture, achieving **70% reduction** in API calls through async Apache Kafka communication
- Achieved **sub-200ms response times** with Redis caching optimization and **zero-downtime deployments** via ArgoCD GitOps workflow
- Deployed on **AWS EKS** with Terraform-managed infrastructure (VPC, EBS storage) and comprehensive CI/CD pipeline using Jenkins, SonarQube

- Implemented **Istio service mesh** with mTLS communication, multi-level rate limiting (5-300 req/min), and complete observability stack (ELK, Prometheus/Grafana, Zipkin)
- Created **6 production-ready Helm charts** for multi-environment support (dev/staging/production) with auto-scaling capabilities

•TERRAP-POD: Agricultural Innovation Solution

2024

UNESCO & Cadi Ayyad University Hackathon

[LinkedIn Post](#)

- **1st Place Winner** at UNESCO Water4Future Hackathon among **20+ international teams**
- Designed innovative modular vertical farming system addressing Morocco's agricultural water challenges with IoT integration and AI-powered optimization
- Developed comprehensive business model with subscription-based AI services and data collection incentives for sustainable agriculture

•Room Reservation Microservices System

2025

Faculty of Sciences Semlalia Marrakech

[Github](#)

- Built complete microservices platform with JWT authentication and granular authorization using API Gateway pattern
- Technologies: Spring Boot, Spring Security, JPA/Hibernate, MySQL, Angular 16+, Docker, GitHub Actions, Spring Cloud

TECHNICAL SKILLS

- **DevOps & Cloud Platforms:** Kubernetes (CKA Certified), Docker, Helm, ArgoCD, Jenkins, GitHub Actions, GitLab CI/CD, AWS (EKS, EC2, EBS, RDS), Firebase, Terraform, Istio, Spring Cloud Gateway
- **Monitoring & Observability:** ELK Stack, Prometheus, Grafana, Zipkin, Kiali, SonarQube, Centralized Logging, Distributed Tracing, Service Mesh Monitoring
- **Programming & Frameworks:** Java 17, Go, Spring Boot 3.x, Node.js, Python, React 18, Next.js 15, TypeScript, Angular 16+, Apache Kafka, Event-Driven Architecture
- **Databases & Security:** PostgreSQL, MongoDB, MySQL, Redis, JWT/OAuth2, mTLS, SSL/TLS
- **Systems & Tools:** Linux (Ubuntu), TCP/IP, DNS, Load Balancing, Bash, Python, PowerShell, Git, GitHub, GitOps Workflows, YAML, JSON, Docker Compose

CERTIFICATIONS & ACHIEVEMENTS

- **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
- **UNESCO Hackathon Winner 2024** - 1st Place

LANGUAGES & AVAILABILITY

- **Arabic:** Native
- **French:** Fluent (B2 Level)
- **English:** Professional (B2 Level)*
- **Availability:** 6-month international internships