

EL MEHDI LAFKAIHI

Junior Cloud DevOps Engineer

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EXPERIENCES AND PROJECTS

Software Development Engineer Intern *NOKIA*

July 2023 - January 2024
Paris, France

- Engineered an automated testing infrastructure using Python, C++, Docker, and Robot Framework, reducing testing time from **4 hours** to **6 minutes**, significantly improving CI/CD pipeline efficiency.
- Enhanced system integration, reliability, and scalability through the use of Virtualization and Linux.

Cloud DevOps Engineer Intern *The French National Swimmers Federation*

February 2023 – June 2023
Lyon, France

- Collaborated with cross-functional teams in the integration and deployment of a machine learning model on AWS, reducing manual effort by **80%**.
- Leveraged Python, Pytorch, Jenkins, Docker, and Kubernetes for seamless cloud-based implementation and automation, ensuring robust and scalable infrastructure.

Optimization and Automation Engineer Intern *ONCF - Railways National Office*

September 2022 – January 2023
Casablanca, Morocco

- Developed and implemented an automated resource allocation system using AWS, Python, Docker, Terraform, and Jenkins, reducing planning time by **40%** and enhancing resource utilization by **25%**.
- Streamlined cloud infrastructure and improved operational efficiency with advanced optimization techniques and machine learning algorithms.

EDUCATION

Ecole Centrale Casablanca

Septembre 2021 – ongoing

- Master's Degree in Data Engineering & Machine Learning

Cloud Computing, Database Management Systems, DataOps Methodologies and Practices, Mathematics, Project Management, Research skills.

Ecole Centrale de Lyon

February 2023 – June 2023

- International Exchange in Software engineering

Software Engineering, Algorithm and Reasoning, Networking, and Entrepreneurship and Innovation.

TECHNICAL SKILLS

- **Cloud & DevOps:** Cloud Computing (Amazon Web Services), CI/CD tools (Jenkins), Infrastructure as Code (Terraform, CloudFormation), Containerization (Docker, Kubernetes), Configuration Management (Ansible), Scripting languages (Python, Bash, PowerShell), Monitoring & alerting tools (Prometheus), Git, Networking (TCP/IP, VPN, Firewall), Database Management (MySQL, MongoDB), Security best practices, Test automation, Virtualization.
- **Programming languages:** Python, C++, C and Golang.
- **Machine Learning & AI:** Python (PyTorch), PowerBI, Prompt Engineering.
- **Languages:** Fluent in English (C1), French (C1) and Arabic.
- **Soft Skills:** Agile Methodologies (Scrum, Kanban), Collaborative Problem Solver, Adaptable Team Player, Quality and Stakeholder Management, Strategic Thinker, Jira .

CERTIFICATIONS

- **AWS Certified SysOps Administrator Associate**, Amazon Web Services.
- **AWS Certified Developer Associate**, Amazon Web Services.
- **AWS Certified Architect Associate**, Amazon Web Services.
- **AWS Certified Cloud Practitioner**, Amazon Web Services.
- **Virtualisation with KVM and Qemu**, Nokia.
- **Containerization with Docker**, Nokia.
- **DevOps: Advanced level with Projects**, Udemy.
- **SonarQube SonarCloud - Continuous Inspection and Code Review**, Udemy.
- **Google Project Management**, Google.

AWARDS & ACHIEVEMENTS

- **Side Project: MedReminder - A Personal Health Assistant on Telegram 2024**, Developed and deployed MedReminder, an innovative and intelligent Telegram bot to assist users with medication management, using AWS services. Succeeded to leverage AWS Lambda, DynamoDB, EC2, and other AWS services to ensure scalability, handling up to 2.6 million requests per day.
- **Top 40 innovative projects - Hackathon Orange 2022**, Development of an AI-based solution to evaluate resumes according to job criteria.
- **National finalist, Water-Race 2022 competition**, Arduino's solution combined with machine learning to improve the efficiency of agricultural irrigation..

PASSIONS

- Reading: Personal development books.
- Tech Meetups and Hackatons.