

# EL MEHDI LAFKAIHI

## Junior Cloud DevOps Engineer

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### EXPERIENCES AND PROJECTS

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#### 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

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#### 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

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- **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++ and C.
- **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

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- **AWS Certified SysOps Administrator Associate**, Amazon.
- **AWS Certified Developer Associate**, Amazon.
- **AWS Certified Cloud Practitioner**, Amazon.
- **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

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- **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

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