

# MOHAMMED BOURHYM

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Software Engineer at ENSET seeking a PFE Internship (4–6 months starting February). Skilled in **Cloud (AWS)**, **DevOps** and **Web Development**.

## EDUCATION

**Ecole Normale Supérieure de l'Enseignement Technique (ENSET)**  
Cycle d'ingénieur en Génie du Logiciel et des Systèmes Informatiques Distribués  
**Faculté des sciences, Université Abdelmalek Essaâdi**  
DEUG Computer and Mathematic Science (SMI)

**2023 – Present**  
Mohammadia, Morocco  
**2021 – 2023**  
Tétouan, Morocco

## EXPERIENCE

### Web Developer | Internship

**July 2025 – September 2025**

IT Access

Tangier, Morocco

- Built a maintenance ticket management application using **Angular** (front-end) and **Spring Boot** microservices with **Kafka**, centralized configuration, **Eureka** service discovery, and **PostgreSQL**
- Implemented real-time features with **WebSockets**, secure authentication with **JWT** and role-based access, and integrated **Spring AI Agent (Ollama)** for intelligent ticket handling
- Containerized services with **Docker Compose**, added mail notifications via **Spring Cloud**, and prepared deployment on **Kubernetes**

### Web Developer | Internship

**July 2024 – August 2024**

Foliatech

Tangier, Morocco

- Developed a full-stack employee management web application using **Angular** (frontend) and **Node.js + Supabase** (backend), implementing **JWT**-based role access control with protected RESTful routes

## PROJECTS

### CommandBuddy – Cloud-Native GitOps Project | Ansible, AWS, Terraform, GitHub Actions, EKS, Docker, Spring Boot, React

- Built a full-stack application (**React**, **Spring Boot**, **MongoDB**) deployed on **AWS EKS** using GitOps practices with **Terraform** and **Docker**
- Implemented CI/CD pipelines via **GitHub Actions**, **Helm charts** deployments, and integrated **Groq LLM API** for AI-powered features

### EduN7 – RAG-Powered AI Chatbot | React, TailwindCSS, Spring Boot, Java, LangChain4j, Docker, Groq API

- Developed a document-based **Retrieval-Augmented Generation** system integrating **Groq LLM** for contextual responses
- Built **Spring Boot** backend (Java 17, LangChain4j) and modern **React + TailwindCSS** frontend with responsive design

### CapLearn – Interactive Language Learning Platform | React, Vite, TailwindCSS, Node.js, Express, Docker, ffmpeg, Groq API

- Developed interactive language learning platform processing videos with **Groq Whisper API** for subtitle generation and vocabulary building
- Built **React + TailwindCSS** frontend with synchronized subtitles and **Node.js + Express** backend containerized with **Docker**

## TECHNICAL SKILLS

**Web Development:** HTML, CSS, JavaScript, React, Angular, Spring Boot, Bootstrap, Node.js, TailwindCSS

**Programming Languages:** Java, JavaScript, C++, Python

**Databases:** MySQL, MongoDB, PostgreSQL, Redis, Supabase

**DevOps & Cloud:** Git, Docker, Docker Compose, AWS, Terraform, Ansible, GitHub Actions, Kubernetes (EKS), Bash, Linux

## CERTIFICATES & ACTIVITIES

**Certificates:** AWS Academy Learner Lab, DevOps with Projects, Red Hat System Administration I & II, Python for Data Science and AI

**Activities:** Core Team Member at Google Developers Group, ENSET PODCAST Editor

**Languages:** Arabic, French, English