

Douae BAKKALI

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Final-year Software Engineering student specializing in **full-stack development** and passionate about **DevOps automation**. Currently seeking **PFE** opportunities to apply and further develop my skills.

Education

Engineering Student – Software Engineering, ENSIAS, Rabat 2023 – 2026
Preparatory Classes (MP) – Lycée Moulay Hassan, Tangier 2021 – 2023

Experience

- **Zen Networks Solutions Inc. | DevOps Intern** June – August 2025
 - Implemented a complete DevOps workflow for a web application.
 - Containerized a full web application (backend in Spring Boot, frontend in React/Next.js).
 - Built a robust CI/CD pipeline on GitLab to automate build, test, and deployment processes.
 - Evaluated various deployment architectures on AWS and provisioned the selected one using Terraform.
 - *Technologies: Docker, GitLab CI/CD, Terraform, AWS*
- **Regional Administration of Tanger–Tétouan–Al Hoceima | Web Development Intern** July 2024
 - Developed a complete inventory management system automating equipment requests and document generation, using Java Spring Boot for the backend and ReactJS for the frontend.
 - Designed the MySQL schema and implemented secure REST APIs with Spring Security.
 - *Technologies: Java, Spring Boot, Spring Security, React, MySQL, REST API*

Projects

- **SmartTransit – Microservices-Based Urban Transport Management Application** Ongoing
 - Implemented a microservices architecture with Spring Boot, inter-service communication via REST, Kafka for asynchronous event exchange, and a frontend built with React/Next.js.
 - Designed independent services for user management, ticketing, routes, subscriptions, and notifications — each with its own PostgreSQL database.
 - *Technologies: Spring Boot, Spring Cloud, Kafka, PostgreSQL, Docker, React, Next.js, REST API*
- **AstroLearn – Collaborative Space Exploration Platform** March 2025
 - Designed a system for article sharing, space mission calendars, and educational courses using UML.
 - Developed backend APIs with Spring Boot and PostgreSQL, and frontend with Next.js/ReactJS.
 - Implemented automated testing (JUnit, Mockito) and moderation powered by LLMs.
 - Containerized with Docker and deployed via Terraform on AWS.
 - *Technologies: Spring Boot, PostgreSQL, Next.js, React, JUnit, Mockito, LLM, Terraform, AWS*
- **Internship Management System** 2024 – 2025
 - Developed a web application for centralized internship management, handling students, companies, and supervisors.
 - Led backend development using Spring Boot, implementing business logic, REST APIs, and database integration with JPA.
 - Secured API endpoints with Spring Security; coordinated closely with frontend integration.
 - Containerized the application with Docker and managed version control using Git.
 - *Technologies: Spring Boot, ReactJS, Oracle DB, JPA, Spring Security, Docker, Git, Postman*

Skills

- **Programming Languages:** Java, Python, JavaScript
- **Web Frameworks & Tools:** Spring Boot, React, Next.js
- **Databases:** Oracle, MySQL, PostgreSQL
- **DevOps & Cloud:** Git, GitLab CI/CD, Docker, Terraform, Ansible, kubernetes
- **Methodologies:** Microservices Architecture, REST API Design, Agile/Scrum, UML, Object-Oriented Programming
- **Languages:** Arabic (native), French (fluent), English (fluent)

Certifications

- **Artificial Intelligence Analyst Certificate – IBM** March 2025
- **Spring Framework Specialization – LearnQuest** March 2025