

# Zakaria Lazrak

## Software Engineer

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### Skills

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**Programming languages:** Java, TypeScript, Python, C++

**Frameworks and tools:** Spring Boot, Hibernate, JEE, React, PostgreSQL, Git, Docker, Ansible, ArgoCD, Zod

### Work Experience

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#### M2M Group | Software Engineering Intern

09/2024 – 03/2025

Developed a mobile HR application.

- Built the backend as a **Spring Boot** monolith, implementing secure **REST** services using **Spring Security** with well-encapsulated business logic, authentication flows, and fine-grained authorization controls.
- Significantly enhanced application performance by optimizing complex SQL queries.
- Developed intuitive, cross-platform user interfaces with Flutter.
- Implemented data persistence using **JPA/Hibernate**.
- Identified and resolved issues in other **JEE** applications while maintaining high code quality through **unit testing** and **Git** versioning.

### Education

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#### 1337 Coding School - UM6P - Ben Guerir

10/2022 - 12/2025

- Software engineer focused on designing and developing IT solutions.
- Coursework: Data Structures and Algorithms, Operating Systems, Web Development, Databases, Software Engineering, Object-Oriented Programming, Computer Networks.

#### FSJES Ain Sebaâ

2019 - 2022

- Bachelor's degree in Economics.

### Projects

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#### Pong | Python, Django

A real-time Multiplayer Ping Pong Web Application.

- Contributed to the backend development, utilizing Django Channels to implement real-time **WebSocket** interactions for live multiplayer matches and tournament updates.
- Containerized the application using Docker and configured **Nginx** as a reverse proxy.

#### Webserv | C++

This project aims to create an HTTP server.

- The main concepts are: Multiplexing, TCP/IP, Parsing Http requests, Client/Server model, Networking.
- Implemented I/O multiplexing with sockets to efficiently handle multiple simultaneous connections.

### Languages

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- Arabic (Native)
- English (Upper-intermediate)
- French (Professional working proficiency)