



# Mehdi Zgoulli

Java Software Engineer

Portfolio

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## EDUCATION

**Master's Degree in Software Engineering (ZAB Equivalent)**

2019 – 2024

*Private Higher School of Engineering and Technologies (ESPRIT)*

**Relevant Coursework:** Software Architecture, Microservices Architecture, Object-Oriented Design, Distributed Systems, Database Systems, API Design, Agile Project Management

## EXPERIENCE

– **Future is Now**

*Java Software Engineer*

07/2024 – Present

*Tunisia*

- \* Developed **SaaS-based solutions** to build and integrate AI-driven systems for business use cases.
- \* Designed backend services for **prompting, multi-modal responses, and custom function calling**.
- \* Automated avatar workflows using **n8n** to enable task execution and decision flows.
- \* Executed **unit and integration tests** using **JUnit** and **Mockito** to ensure backend reliability.
- \* Deployed the platform to a **cloud-based production environment** on **DigitalOcean**.
- \* Applied **SOLID principles** and clean architecture with layered design, **DTOs**, and exception handling.
- \* Collaborated in an **Agile team** using **Slack** for communication and **Trello** for task tracking.

**STACK:** Java, Spring Boot, Angular, MySQL, Three.js, Ready Player Me, OpenAI API, Google Cloud (STT, TTS), n8n, Docker, GitHub Actions, Nginx, PM2, DigitalOcean, OVH, DNS, Git, Bootstrap, IntelliJ, Postman

– **Itech Progress GmbH**

*Fullstack Software Engineer (Intern)*

01/2024 – 06/2024

*Germany*

- \* Developed an **employee leave management system** covering requests, approvals, and leave tracking.
- \* Implemented authentication and authorization using **Spring Security** and OTP verification.
- \* Integrated an **LDAP directory** for centralized user authentication and synchronization of employee data.
- \* Built responsive UI modules with **Angular** for employee self-service dashboards.
- \* Integrated real-time notifications via **WebSocket** with **MySQL** persistence.

**STACK:** Java, Spring Boot, Angular, Angular Material, MySQL, IntelliJ, Postman, REST APIs, Git, Linux

## PROJECTS

– **DevOps Pipeline Implementation**

2025

- \* Automated a **multi-stage CI/CD pipeline** with **Jenkins**, integrating **SonarQube** and **Nexus**.
- \* Deployed **Prometheus** and **Grafana** to monitor services across multiple environments on **Azure**.

– **Education Management Platform**

2025

- \* Built a **React** and **Node.js** application with **PostgreSQL** for managing students, classes, and payments.
- \* Deployed backend services to a **VPS**, setting up **MySQL**, production configuration, and runtime environments.

## SKILLS & LANGUAGES

<b>Languages:</b>	English, French, Arabic, German
<b>Programming:</b>	Java, JavaScript, TypeScript, Python, C/C++
<b>Backend:</b>	Spring Boot, Spring MVC, Spring Data JPA, Spring Security, REST APIs
<b>Frontend:</b>	Angular, React, HTML5, CSS3
<b>Databases:</b>	PostgreSQL, MySQL, MongoDB
<b>DevOps &amp; Tools:</b>	Docker, Jenkins, Git/GitHub, CI/CD, Linux, Postman