



Mehdi Zgoulli

Java Software Engineer

🌐 Portfolio

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LinkedIn

EDUCATION

Master's Degree in Software Engineering (ZAB Equivalent)
Private Higher School of Engineering and Technologies (ESPRIT)

2019 – 2024

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

EXPERIENCE

– Future is Now 07/2024 – Present
Tunisia
Java Software Engineer

- * 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 01/2024 – 06/2024
Germany
Fullstack Software Engineer (Intern)

- * 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

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