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Education

Bachelor of Applied Mathematics and Informatics, FH Aachen, Germany

FH Aachen, Germany (2022–2024) · UMI, Morocco (2019–2022)

Technologies

Programming: Java, Kotlin, TypeScript, JavaScript

Frameworks: Spring Boot, Spring Cloud, Angular, React, Django, JEE, JSP, JSTL, Camunda, A12

Testing & CI/CD: JUnit 5, Mockito, Selenium, Testcontainers, Unit & Integration Testing, Jenkins, Git, Gradle, Maven

Databases: MySQL, PostgreSQL, Oracle

Tools: Docker, Stripe API, PayPal API, Lombok, Google GSON, Modbus TCP, Raspberry Deployment

Others: Distributed Systems, Web Security, UML, Bash, Frontend Development (HTML, CSS, SCSS)

Languages

Arabic, Native

French, Native

English, B2

German, C1

ZIAD BOUGRINE

Fullstack developer

Abstract

Full-stack developer with 2+ years of experience designing, developing, and deploying web applications. Skilled in Java, Spring, and Angular, with a strong focus on clean architecture, performance optimization, and secure coding practices.

Work Experience

MGM Technologies Partners, Germany

Oct 2023– Present

- **Full-stack developer, ELSTER** (Oct 2024 – Present)
 - Developed and enhanced features for the **Administrator Portal**, improving functionality and user experience.
 - Implemented new customer-facing features in the Company Portal (**MUK**) to enhance service offerings.
 - Refactored existing code to improve readability, maintainability, and overall performance.
 - Performed manual testing to ensure quality and stability of implemented projects.
 - Upgraded libraries and integrated the latest versions into the existing codebase.
 - Contributed to the **MeinElster** platform by developing and launching new features.
 - Focused on application security, conducting regular vulnerability scans and patching identified CVEs.
- **Backend Developer, Internal Project A12 (Oct 2023 – Oct 2024)**
 - Identified, debugged, and resolved software issues and defects.
 - Developed new features and refactored existing code to enhance readability, maintainability, and overall performance.
 - Redesigned and optimized test suites and key components of the main codebase, significantly improving maintainability and performance. Achieved a dramatic reduction in IT runtime, cutting execution time from 25 minutes to just 6 minutes.
 - Focused on Security Role, regularly scanning the project for vulnerabilities and patching identified CVEs.
 - Collaborated directly with clients in real-time coding environments to address requirements and provide tailored solutions.
 - Initiated bachelor's thesis integrating PayPal and Stripe payment systems into a model-based low-code platform : A12.

- **Technical Stack:** Java, Kotlin, TypeScript, Spring Boot, React, JSP/JSTL, Camunda, A12 | JUnit 5, Selenium, Jenkins, Git, Gradle | Docker, Stripe & PayPal APIs

Personal projects

- Travel Agency Website
- Car Rental Website
- CVE-2022-30190 (POC)
- Arp Spoof Visualizer
- Student Management
- Pentesting Website

SIJ, FH Aachen, Germany

Feb 2023 - Mai 2023

- **Fullstack Developer**, Working Student
 - Developed a robust backend server enabling seamless communication with electric stations.
 - Designed and implemented a RESTful API to support iOS app integration, allowing precise control over station operations.
 - Created an intuitive administration panel with real-time data communication, providing full control and monitoring capabilities for electric stations and software users.
 - Refactored and migrated code from Python/React to Java/Angular, enhancing system stability and performance.
 - Deployed the solution to a test server for rigorous validation and evaluation.
- **Technical Stack:** Java, TypeScript, Spring Framework, Lombok, Google GSON, Angular 12, Modbus TCP, MySQL, JavaScript / HTML / CSS / SCSS, Docker, Maven, Raspberry Deployment and Git.