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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, Python, C++

**Frameworks & Technologies:** Spring Framework, Spring Cloud, Java EE, Django, Angular, JSP / JSTL, Camunda, Bootstrap 5, Html & CSS

**Testing & CI/CD:** JUnit 5, Mockito, Selenium, Test-containers, Docker, GitHub Actions, Jenkins (Platform usage only), Git, Gradle (Beginner), Maven, npm, pip

**Databases:** Consuming MySQL & Oracle / Building Data tables

**Used Operating System:** Kali Linux, Ubuntu Linux, Raspberry Pi, Bash Scripting.

**Others:** Full-Stack Development, Web Security, UML & Merise Modeling, CI/CD Automation (GitHub Workflows), Agile Methodologies, Team Collaboration, Unit & Integration Testing

## 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 an 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, Modbus TCP, MySQL, HTML & CSS, Docker, Maven, Raspberry Deployment and Git.