

# ZZOUBAIR ZARQI

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## About Me

Full-stack developer with a degree in IDAI, skilled in SvelteKit, Java Spring Boot, and Artificial Intelligence. Experienced in developing complete web platforms and integrating innovative AI solutions, particularly RAG chatbots. Specialized in designing robust architectures and creating modern user interfaces, with a portfolio that includes e-commerce platforms, intelligent blogging systems, and data processing applications.

## Experience

### Smart Automation Technologies

Apr. 2025 – Aug. 2025

MEAN Stack Developer

Tangier, Morocco

- Analyzed functional requirements and performed competitive platform benchmarking.
- Modeled platform architecture using UML diagrams.
- Designed mockups for the user interface.
- Fully developed the platform using the MEAN stack.
- Created an intelligent chatbot based on RAG (Retrieval-Augmented Generation) to assist users.

### EQOTA Consulting

Jul. 2024 – Sep. 2024

Web Developer

Tangier, Morocco

- Conducted in-depth analysis of 6S audit results in industrial environments.
- Identified areas for improvement and modeled existing processes.
- Proposed solutions to automate data collection and analysis.
- Designed and developed a custom website to digitize 6S audits.
- Integrated intuitive user interfaces and managed audit data.
- Generated dynamic reports to facilitate monitoring and decision-making.

## Education

### Faculty of Science and Technology

Sep. 2024 – Jun. 2025

Bachelor of Science and Technology

Tangier, Morocco

- Bachelor's degree in Science and Technology, majoring in IDAI (Application Development Engineering). Focused on the design, development, and management of innovative IT solutions.

### Faculty of Science and Technology

Sep. 2021 – Jun. 2024

DEUST in Science and Technology

Tangier, Morocco

- Completed DEUST in Common Core GE-GM at the Faculty of Science and Technology. Solid foundation in fundamental sciences and engineering techniques (general and mechanical).

## Projects

### Complete Blog Platform | Java, Spring Boot, Svelte, TypeScript | [Backend](#) | [Frontend](#)




2025

- Developed a modern blog platform with Spring Boot backend and Svelte frontend for an optimal user experience.
- Implemented a rich text editor with category and tag management, drafts, and an interactive comment system.
- Built a full-text search engine with category and tag filtering, RSS feed, and related post suggestions.

### AIrTicle - Article Approval System | Java, Artificial Intelligence, NLP, Spring AI | [GitHub](#)

2025

- Developed an intelligent system for article approval and validation using NLP techniques.
- Implemented content analysis algorithms to assess quality, relevance, and compliance of submitted articles.
- Integrated with the blog platform to automate moderation and improve editorial efficiency.

<b>Obeya Store - E-commerce Platform</b>   <i>SvelteKit, Appwrite, TypeScript</i>    <a href="#">GitHub</a>	<b>2025</b>
<ul style="list-style-type: none"><li>• Developed a complete online store using SvelteKit and Appwrite with all essential e-commerce features.</li><li>• Implemented an advanced admin system for managing products, orders, users, and real-time analytics.</li><li>• Designed a modern responsive UI with cart management, secure payments, and order tracking.</li></ul>	
<b>2D Procedural Maze Game</b>   <i>C++, Raylib</i>    <a href="#">GitHub</a>	<b>Jul. 2025</b>
<ul style="list-style-type: none"><li>• Developed a 2D game in C++ with procedurally generated unique mazes for maximum replayability.</li><li>• Implemented difficulty levels, precise collision detection, and smooth dynamic animations.</li><li>• Created a strategic key-and-door system adding a puzzle dimension to the gameplay.</li></ul>	
<b>Intelligent Conversational Agent (RAG)</b>   <i>Python, LangChain, ChromaDB, Gradio</i>    <a href="#">GitHub</a>	<b>2025</b>
<ul style="list-style-type: none"><li>• Built a chatbot using RAG with advanced contextual search and vector database.</li><li>• Integrated ChromaDB and OllamaEmbeddings for fast knowledge retrieval, with responses generated by LLaMA 3/ChatGroq.</li><li>• Developed a responsive Gradio interface with customizable prompts by domain.</li></ul>	

Technical Skills

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**Languages:** Java, C++, Python, JavaScript/TypeScript, SQL  
**Developer Tools:** VS Code, Git, Docker, Postman, GitHub Actions, Node.js  
**Frameworks/Technologies:** Spring Boot, Django, SvelteKit, React  
**Databases:** MySQL, PostgreSQL, ChromaDB  
**AI & NLP:** RAG (Retrieval-Augmented Generation), NLP, LangChain

Relevant Coursework

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- Design Patterns
  - Algorithm Analysis
  - Software Engineering
  - Database Management Systems
  - Web Development
  - Object-Oriented Programming
- Artificial Intelligence
  - Natural Language Processing (NLP)
  - Internationalization (i18n)
  - UML Modeling
  - Application Security
  - Computer Problem Solving