

# EZZOUBAIR ZARQI

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## About

Junior full stack developer, specializing in SvelteKit, Java Spring Boot and Artificial Intelligence. Experienced in developing complete web platforms, integrating RAG chatbots and designing robust architectures and modern interfaces. Portfolio including projects in e-commerce, intelligent blogs and data processing applications.

## Experience

### Smart Automation Technologies

Apr. 2025 – Sep. 2025

MEAN STACK Developer

Tangier, Morocco

- Analyzed functional requirements and conducted comparative study of competing platforms.
- Modeled platform architecture using UML diagrams.
- Designed mockups for user interface.
- Complete development of the platform using MEAN stack.
- Created intelligent chatbot based on RAG (Retrieval-Augmented Generation) method to assist users.

## Education

### Faculty of Science and Technology

Sep. 2025 – Present

Master in Artificial Intelligence and Data Science (IASD)

Tangier, Morocco

- Specialized training in Artificial Intelligence and Data Science at the Faculty of Science and Technology of Tangier (FSTT). Development of advanced skills in machine learning, deep learning, big data processing and development of innovative AI solutions.

### Faculty of Science and Technology

Sep. 2024 – Jun. 2025

Bachelor in Science and Technology

Tangier, Morocco

- Obtained Bachelor in Science and Technology, IDAI Track (Software Application Development Engineering), at the Faculty of Science and Technology (FSTT). Training focused on design, development and management of innovative IT solutions.

### Faculty of Science and Technology

Sep. 2021 – Jun. 2024

DEUST in Science and Technology

Tangier, Morocco

- Obtained DEUST in Common Core GE-GM at the Faculty of Science and Technology. Solid foundational training in fundamental sciences and general engineering and mechanical techniques.

## Projects

### SvelteKit Exec Adapter | *TypeScript, SvelteKit Adapter API, Bun, Vite* | [GitHub](#)


2025

- Designed a customizable SvelteKit adapter based on Bun to launch the application via an external command/binary and target non-standard hosting environments.
- Support for SSR, pre-rendering and static asset publishing, with centralized configuration in `svelte.config.js`, environment variable management and execution logs.
- Optimized DX with build/run scripts, integration examples and clear documentation for local and CI deployments.

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


2025

- Developed modern blog platform with Spring Boot backend and Svelte frontend for optimal user experience.
- Implemented rich editor with category management, tags, drafts and interactive commenting system.
- Created an administration system for the platform to ensure quality and control over the platform.

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

- Developed intelligent article approval and validation system using AI.
- Implemented content analysis algorithms to evaluate quality, relevance and compliance of submitted articles.
- Integration with blog platform to automate moderation process and improve editorial efficiency.

2025

RAG Intelligent Conversational Agent | *Python, LangChain, ChromaDB, Gradio* |  [GitHub](#)

- Created intelligent chatbot using RAG method with advanced contextual search and vector database.
- Integration of ChromaDB and OllamaEmbeddings for fast knowledge access, with responses generated by ChatGroq/LLaMA 3.
- Developed responsive Gradio interface and custom prompt system according to application domain.

2025

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:** RAG (Retrieval-Augmented Generation), LangChain

Relevant Coursework

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