

AYOUB KADDIOUI

Software Engineering Student / Systems & Algorithms Enthusiast

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EDUCATION

Engineering Degree (Computer Engineering) <i>FST Errachidia</i>	2025–2028
B.Sc. in Software Engineering <i>FST Errachidia</i>	2024–2025
DEUST (MIP Track) <i>FST Errachidia</i>	2023–2024

PROJECTS

TURATH.ai (LLM & RAG System)	2025 – 2026
- Fine-tuned and deployed LLaMA 3.1 on Hassani cultural data, backed by a Python and ChromaDB vector embedding server. - Implemented a two-stage retrieval and re-ranking architecture to significantly improve query accuracy and relevance.	
Personal Portfolio Website (React, Vite, Tailwind CSS)	2026
- Built a fast, accessible, mobile-first portfolio using React, Vite, and Tailwind CSS, integrated with EmailJS. - Deployed the optimized production bundle on Vercel with the custom domain ayoubkaddioui.dev.	
Custom In-Memory Database Engine (C)	2025 – 2026
- Developed a high-performance in-memory database using hash tables and BSTs to achieve $O(1)$ to $O(\log N)$ operations. - Implemented binary persistence, an Undo/Redo system, and automated CI/CD workflows via CMake and GitHub Actions.	
Decentralized Library Management System (DApp) (PFE)	2024 – 2025
- Developed a full-stack Ethereum DApp using Solidity, React, and Web3.js with MetaMask authentication for secure book lending. - Utilized IPFS to minimize on-chain storage costs and ensured smart contract reliability through Truffle and Chai testing.	

SKILLS

- **Languages:** Java, JavaScript, SQL, C, PHP, Go, Python, Shell
- **Frameworks & Libraries:** React, Vite, Tailwind CSS, Spring Boot
- **Tools:** Git, VS Code, GitHub, $\text{\LaTeX}$, CLion, DataGrip, PyCharm, IntelliJ IDEA, WebStorm, Linux
- **Core CS:** OOP, data structures, algorithms, UML, Merise
- **Project Management:** Agile/Scrum, teamwork, sprint planning, task tracking

LANGUAGES

- Arabic: Native
- French: Intermediate
- English: Professional working proficiency

ACTIVITIES

Event Organizer	Bisoft Engineering Club
co-organize tech events at the Bisoft Engineering Club and technical workshops on software engineering and business intelligence; handled planning and logistics.	

INTERESTS

- **Literature:** Russian and world literature.
- **Games:** Chess, algorithmic puzzle-solving.