

Ahmed Ben Ahmed

Full Stack Web Developer

Berrechid, Morocco

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"Product-minded engineer with a passion for building responsive PWAs, optimizing complex frontends, and designing scalable backend architectures."

Education

ENSA Berrechid, Université Hassan 1er

Engineering Degree in Information Systems and Big Data

Berrechid, Morocco

2024–2027

ENSA Berrechid, Université Hassan 1er

Preparatory Cycle (Pre-engineering), Engineering

Berrechid, Morocco

2022–2024

- Top class student, Awarded excellence prize.

Technical Skills

- Frontend Development:** React.js, Next.js, TypeScript, Ant Design, Tailwind CSS, Apollo Client, Redux/Context API.
- Backend Development:** Node.js (Express), Spring Boot (Java), GraphQL, REST APIs, JPA/Hibernate, Prisma.
- Database Storage:** PostgreSQL (inc. pgVector), MongoDB, MySQL, Supabase.
- Testing QA:** Cypress (E2E), React Testing Library, JUnit.
- Tools DevOps:** Docker, Git/GitHub, CI/CD pipelines, Vercel, DigitalOcean.

Key Projects

Pharmacy Management System (2022 - Present): Full Stack Progressive Web Application (PWA)

- Full Stack Architecture:** Built a decoupled architecture using **React (Ant Design)** on the frontend and **Spring Boot with GraphQL** on the backend, ensuring separation of concerns between business logic and UI.
- PWA Implementation:** Developed a responsive PWA optimized for low-spec devices, ensuring smooth performance for stock tracking and sales operations in a real-world pharmacy environment.
- Data Visualization:** Migrated legacy charts to **ECharts** to create high-performance interactive dashboards for sales and stock KPIs.
- Testing Quality:** Implemented End-to-End testing strategies (Cypress/Playwright) to validate critical workflows like invoicing and inventory updates.
- Dockerization:** Managed the local development environment using **Docker** to orchestrate frontend, backend, and database containers efficiently.

LGANA MOOD (01/2025-Present): AI-Powered Journaling App (Next.js) lgana-mood.vercel.app

- Modern Tech Stack:** Architected a full-stack application using **Next.js 14** (App Router), **TypeScript**, and **Supabase**.
- AI Integration:** Integrated **TogetherAI** and **RAG (Retrieval-Augmented Generation)** to provide context-aware journaling prompts based on historical user data.
- Vector Search:** Utilized **PostgreSQL with pgVector** to store and retrieve vector embeddings for semantic search of user reflections.
- Authentication:** Implemented secure user management and session handling using **Clerk**.

Diabuddies (10/2023-02/2024): Diabetes Management Platform (MERN Stack)

- **MERN Stack Development:** Developed a monolithic web application using MongoDB, Express, React, and Node.js.
- **Headless CMS:** Integrated **Strapi** to manage dynamic blog content and educational resources.
- **Deployment:** Deployed the application on **DigitalOcean** using Docker containers, managing environment variables and build processes.
- **Features:** Implemented internationalization (i18n) and external API integrations (OpenFoodAPI).

Leadership & Community

Computer and Engineering Club (CEC)

Club Leader

Berrechid

2024–Present

- Lead a community of student developers, organizing workshops on Web Development (React/Node) and AI.
- Supervised multiple student teams in building web projects from conception to deployment.
- Co-organized tech conferences in collaboration with GeeksBlaBla.

ENACTUS BERRECHID

Project Manager (CashVoyage)

Berrechid

2022–2023

- Validated product-market fit using the Business Model Canvas and user persona research.
- Designed the MVP features for a peer-to-peer shipping web application.