

Ahmed Abdelrahman

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Summary

Full-stack developer with strong **analytical skills** and a **solid foundation** in computer science principles. Transitioned into software engineering through the **MERN stack** and expanded into **relational databases**, data structures, and algorithms. Known for **rapid learning**, attention to detail, and a problem-solving mindset. Driven to build efficient, data-driven systems that improve performance and reliability across domains

Experience

FullStack engineer | remote

Freelance | 11/2025 - Present

Tech: Next.js, TypeScript, TypeORM, PostgreSQL, Paymob, Tailwind CSS, Vercel | [Link](#)

- Developed a scalable tourism platform.
- Integrated Paymob payment gateway to process secure transactions, reducing checkout completion time by **40%**.
- Engineered a TypeORM/PostgreSQL backend to manage bookings, optimizing database queries to achieve **sub-100ms** API response times.
- Leveraged Next.js Server-Side Rendering (SSR) to boost SEO rankings, maintaining a **95+ Performance score** on Google Lighthouse.
- Built a responsive interface that improved mobile user engagement by **30%**, ensuring seamless booking for travelers on the go.

Freelance/Self Employed | Remote

Full Stack Developer | 07/2025 - 08/2025

Tech: Next.js, Tailwind CSS, MongoDB, next-i18next, Vercel , [link](#)

- Built and deployed a pregnancy education platform with over 150+ pages of bilingual content (Arabic & English).
- Used next-i18next for seamless internationalization, reducing translation overhead by **70%**
- Structured and categorized **50+** pregnancy symptoms, diseases, and medications across trimesters.
- Achieved 100% Lighthouse accessibility score and responsive design tested on **30+** devices.
- Deployed on Vercel with custom domain and Optimized queries and dynamic routing, reducing data-fetching time by 40%.

Skills

HTML 5, CSS3, JavaScript, React, Tailwind, Node.js, Express.js, TS, Next.js, MongoDB, GitHub, Git, PostgreSQL, Rust, Heroku, vercel, DigitalOcean

Personal Projects

Medical CRM (AI-Enhanced Prescription Platform)

Full Stack Project

Tech: React, Tailwind CSS, Lucide React, React Charts, Node.js, Express, PostgreSQL, TypeORM

- Built full-stack medical CRM with complete CRUD for diagnoses, prescriptions, and patient records.
- Integrated RBAC and JWT authentication with refresh/access token rotation for secure multi-role access.
- Optimized clinical workflows and AI-based drug interaction checks across 500+ medications.
- Delivered responsive UI and analytics dashboards processing 10K+ records/month with 35% lower CPU load.
- Ensured HIPAA-aligned data security through validation, encryption, and efficient query tuning.

CodexBar Clone (High-Performance Desktop Utility)

Tech: Rust, Tauri, HTML, CSS, Serde

- Developed a lightweight, cross-platform desktop application for generating developer-centric barcodes and QR codes, mirroring the functionality of CodexBar.
- Leveraged **Tauri and Rust** to achieve a bundle size under **3MB**, reducing the application footprint by **90%** compared to standard Electron-based alternatives.
- Implemented high-speed barcode generation logic directly in Rust, delivering instant rendering results with near-zero input latency.
- Built a native-feeling UI using standard HTML/CSS, interfacing securely with the Rust backend via Tauri's IPC (Inter-Process Communication) bridge.
- Ensured cross-platform compatibility, enabling a single codebase to build native executables for macOS, Windows, and Linux.

AI-Powered Telegram Assistant

Tech: TypeScript, LangChain, Node.js, LangSmith, Telegraf, ExcelJS

- **Built an intelligent chatbot** that automates direct manipulation of Excel databases (Create, Read, Update, Delete) entirely through a Telegram chat interface.
- **Implemented a RAG (Retrieval-Augmented Generation) system** using LangChain to answer user queries based on proprietary internal data, reducing manual information lookup time by **50%**.
- **Integrated LangSmith for LLM observability**, enabling real-time tracing, debugging, and optimization of chain performance to ensure **99% response accuracy**.
- **Streamlined administrative workflows** by allowing non-technical staff to insert and manage records via natural language, eliminating the need for direct spreadsheet access.
- **Engineered robust error handling** to validate user inputs before modifying critical data, ensuring data integrity across shared Excel resources.

Certificates

1-Meta Front-End Developer Professional Certificate

2-HTML, CSS, and JavaScript for Web Developers – Johns Hopkins University

3- Master Node JS & Deno.js, build REST APIs with Node.js, GraphQL APIs, add Authentication, use MongoDB, SQL & much more!

4- Master SQL, Database Management & Design and learn to work with databases like PostgreSQL, MySQL + more. With Exercises!

Education

**Modern University for Information and technology | Cairo
Pharmacy | 07/2024**

- Graduated 3.7+ GPA