

# Abdelrahman Aboalkhair

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## About Me

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Passionate full-stack developer with strong command of the MERN stack, TypeScript, PostgreSQL, Prisma, and Docker. Focused on building scalable, production-ready apps and currently seeking freelance opportunities. Preparing to study Engineering in Germany.

## Education

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**STEM-Focused Secondary Certificate (Thanaweya Amma)**, Egypt

- Studying advanced Math, Physics, and Computer Science
- Preparing for Engineering admission in Germany (targeting TU9 universities)
- Independently learning German (B1+) and software engineering.

## Projects

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### Full Stack E-commerce Platform

- Scalable B2C online store with user auth, product management, cart, checkout, and admin dashboard
- Tech Stack: Next.js, Node.js, Express, Prisma, PostgreSQL, Redis, Docker
- Features: REST + GraphQL APIs, real-time customer support chat, Stripe payment, analytics

### Additional Projects

- **Donor CRM System** — End-to-end platform for donor, volunteer, and blood donation management (built for Resala NGO)
- **Inventory Management System** — Supports product variants and attributes (size: XS, S, color: Red, Blue, etc.), stock tracking, and role-based control
- **Customer Support Chat App** — Real-time multi-agent chat system using Socket.IO + WebRTC with dynamic conversation routing
- **3D Developer Portfolio** — Interactive, React Three Fiber site for showcasing projects in a spatial interface

### Other Projects

- Donor CRM system (MERN)
- Portfolio site deployed via Vercel showcasing all major work

## Technologies

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**Languages:** TypeScript, JavaScript, SQL, HTML/CSS, Python (basic)

**Frontend:** React, Next.js, Tailwind CSS, Redux Toolkit, React Query

**Backend:** Node.js, Express, Prisma, PostgreSQL, MongoDB, Redis

**DevOps:** Docker, Docker Compose, Git, WSL2, Railway, Vercel

## Experience

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### Freelance Developer (Remote)

- Built and maintained full-stack apps for small businesses and NGOs
- Designed CI/CD pipelines and handled deployments via Vercel and Railway
- Provided ongoing support, technical documentation, and feature iteration

## Volunteering

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**Resala Charity Organization**, Egypt

- Volunteered in the Data Management Committee
- Designed and built a custom Donor CRM System for internal use
- Managed data pipelines for donors, volunteers, blood donation campaigns, and reporting

## Languages

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**Arabic** — Native

**English** — Fluent (B2)

**German** — Intermediate (B1 in progress)