

Omar Fawzy

Junior Backend Engineer | Passionate about Performance & Scalable Systems

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SUMMARY

Self-taught backend engineer with hands-on experience building secure, scalable APIs and full-stack web applications using Node.js, Express, Laravel, ASP.NET, MySQL and PostgreSQL. I'm passionate about performance optimization, system design, and clean architecture.

Having transitioned from dentistry to engineering, I've developed a strong analytical mindset and a deep focus on precision and reliability, essential for building systems where every millisecond counts.

Professional Experience

Backend Developer, *Tilted business solutions*

12/2025

Cairo, Egypt

- Designing backend architecture and APIs using Node.JS.
- Managing SQL database using Neon and Supabase.
- Cooperating with frontend team and flutter team in app development.

Full Stack Intern, *DigiCrafterz*

11/2025 – 12/2025

Cairo, Egypt

- Building APIs with ASP.NET  Core.
- Building Frontend by Next.JS

PROJECTS

ClinicLense

Tech Stack: Next.js 16, React 19, TypeScript, Supabase (PostgreSQL, Auth, SSR), Tailwind CSS 4, next-intl.

Developed "ClinicLense," a high-performance dental clinic discovery and rating platform built with Next.js 16 and Supabase, enabling dentists to search, filter, and review verified dental clinics in a multilingual environment.

Key Features:

- **Modern Architecture:** Built with Next.js 16 (App Router) and React 19, utilizing Server Components and Actions for optimal performance, faster load times, and superior SEO.
- **Integrated Backend:** Leveraged Supabase for real-time PostgreSQL database management, secure role-based authentication, and efficient server-side integration.
- **Multilingual Support:** Implemented full internationalization with **next-intl**, providing seamless support for English and Arabic with dedicated RTL (Right-to-Left) layout handling.
- **Search & Discovery:** Developed dynamic search and sorting functionality, allowing users to find clinics based on ratings, reviews, and location in real-time.
- **Secure Verification:** Robust user authentication and clinic submission workflows designed to ensure data integrity and community trust.
- **Responsive UI/UX:** Premium, mobile-first design system built with Tailwind CSS 4, featuring smooth micro-animations and a custom "Mint Green" aesthetic.
- **Type Safety:** End-to-end TypeScript implementation throughout the project, enhancing codebase reliability and maintainability.

ScanDrum - E-commerce Platform Backend

Tech Stack: Next.js 15 (API Routes), TypeScript, Hono Framework, PostgreSQL (Neon), Drizzle ORM, Redis (Upstash), AWS S3, Better Auth, Zod OpenAPI.

Developed the backend infrastructure for a multi-tenant e-commerce platform enabling merchants to create and manage online stores with custom domains, product catalogs, and order processing for a mobile-first shopping experience (Flutter app).

Key Features:

- **API Architecture:** Hono-based REST API with OpenAPI/Swagger documentation, type-safe route handlers using Zod schemas for request/response validation.
 - **Multi-Tenant System:** Store management with subdomain and custom domain support, domain verification workflows, and Vercel integration for domain provisioning.
 - **Authentication & Security:** Better Auth integration with Google OAuth, session management via Redis, bearer token authentication, and cross-subdomain cookie handling.
 - **Database Design:** PostgreSQL with Drizzle ORM, comprehensive schema with 15+ tables including users, stores, products, orders, customers, and cart management with proper relational constraints and indexing.
 - **E-commerce Features:** Product catalog with universal product sync, shopping cart API, order management system with status tracking, customer management, and payment processing via Polar integration.
 - **File Management:** AWS S3 integration for product images, store logos, and thumbnails with upload/download services.
 - **Email Infrastructure:** Transactional email system using Resend for welcome emails and notifications.
 - **Type Safety:** Full TypeScript implementation with Zod validation ensuring end-to-end type safety from API to database.
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Veterinary Clinic Management System

Tech Stack: ASP.NET Core 8.0, Next.js 16, TypeScript, SQL Server, Entity Framework Core, Redis, Tailwind CSS.

Developed a full-stack veterinary clinic management system with a .NET 8 backend and responsive Next.js 16 frontend, featuring Clean Architecture for scalability and user experience.

Key Features:

- Modern Architecture: Next.js 16 (App Router), React 19 frontend with scalable ASP.NET Core 8.0 backend using CQRS and MediatR.
- State Management: Zustand for global state, TanStack Query for data syncing and caching.
- Secure Authentication: Role-based JWT with ASP.NET Core Identity, granular access control.
- Responsive UI/UX: Mobile-first design with Tailwind CSS, dark mode, and internationalisation support.
- Data Integrity: Entity Framework Core, Repository pattern, FluentValidation, and robust error handling.
- Domain Logic: Advanced features like appointment scheduling, patient management, and location services.
- Type Safety: TypeScript throughout, enhancing reliability and developer efficiency.

SKILLS

Languages – Proficient

JavaScript (Node.js), PHP (Laravel), Python, C#,
Rust (Learning), SQL

Frameworks – Proficient

Express.JS, Laravel, ASP.NET, Node.JS, Django
(basic)

Databases – Proficient

PostgreSQL, MySQL, MongoDB

Performance Tools – Competent

Redis (caching), Nginx (basic setup), Chrome
DevTools for backend profiling

Concepts – Proficient

REST API Design, Caching Strategies,
Performance Optimization, Scalability,
Authentication (JWT), Microservices
(introductory), Clean Architecture

DevOps Basics – Competent

Docker, GitHub Actions, Render/Vercel
deployment

Soft Skills – Proficient

Team Work, Fast learner and Problem solver

CERTIFICATES

The Complete Full-Stack Web**Development Bootcamp** 

Instructor: Dr. Angela Yu

[View Certificate](#)

Problem Solving (Basic) 

The bearer of this certificate
has passed the HackerRank
skill certification test
[View Certificate](#)

SQL (Basic) 

The bearer of this certificate
has passed the HackerRank
skill certification test
[View Certificate](#)

SQL (Intermediate) 

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has passed the HackerRank
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CSS (Basic) 

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JavaScript (Basic) 

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Languages

- English
- Arabic

EDUCATION

Bachelor's Degree in Dentistry, The British University in Egypt

(GPA: 3.0/4.0)