

Omar Fawzy

Junior Backend Engineer | Node.js, Laravel, MySQL | 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, 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.

PROJECTS

Subscription Tracker Web App [🔗](#)

Tech Stack: Node.js Express.js MongoDB JWT Authentication

Developed a full-stack application to track subscriptions, featuring JWT authentication, secure CRUD APIs, and a MongoDB schema. The responsive frontend, built with React and Material UI (MUI), includes a calendar and renewal notifications.

- **User** registration login with JWT-based authentication.
- **Secure** APIs for CRUD operations with renewal tracking.
- **Responsive UI** using React.js and Material UI with role-based access.

Feature Flag Management System [🔗](#)

Tech Stack: Node.js, Express.js, Supabase (PostgreSQL), Redis, JWT-ready Architecture.

Developed a production-ready feature flag management system enabling dynamic feature control without code deployments. The system leverages Redis caching for high-performance flag evaluation and Supabase for persistent storage, with multi-criteria evaluation based on user roles, subscription plans, and environments.

- **RESTful API architecture** with secure endpoints for feature flag evaluation and management.
- **Redis caching layer** achieving sub-millisecond response times with 60-second TTL optimization.
- **Multi-criteria feature evaluation** supporting role-based access (admin, beta-tester, user), plan-based gating (free, pro, enterprise), and environment-specific configurations.
- **Supabase integration** with PostgreSQL for scalable flag storage and JSONB rule configuration.
- **Modular service architecture** with separated concerns for database operations, caching, and business logic.

Task Manager API Backend [🔗](#)

Tech Stack: PHP Laravel MySQL JWT Authentication

Developed a secure and scalable backend API for a task management application using the Laravel framework. The project features a complete set of RESTful endpoints for user authentication and full task management, all built upon a clean MVC architecture.

- **Implemented** user registration & login functionality secured with JWT-based authentication.
- **Designed** and built secure RESTful APIs for full CRUD (Create, Read, Update, Delete) operations on tasks.
- **Structured** the application using the MVC design pattern for a maintainable and scalable codebase.

Full-Stack Dentist Portfolio

Tech Stack: Next.js Tailwind CSS TypeScript Supabase Upload Thing
Designed and deployed a responsive full-stack web app for managing and showcasing dental case studies. Implemented image uploads via Upload Thing and real-time data handling with Supabase, including authentication. Developed dynamic routing for detailed case pages and optimized SEO using the Next.js App Router. Leveraged server-side rendering and Incremental Static Regeneration (ISR) for fast, scalable performance.

Web Developer Portfolio

Tech Stack: React.js Tailwind CSS
Interactive personal portfolio showcasing web development projects, skills, and professional journey in tech.

SKILLS

Languages – Proficient JavaScript (Node.js), PHP (Laravel), Python, Rust (Learning), SQL	Frameworks – Proficient Express.js, Laravel, 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) The bearer of this certificate has passed the HackerRank skill certification test View Certificate	CSS (Basic) The bearer of this certificate has passed the HackerRank skill certification test View Certificate	JavaScript (Basic) The bearer of this certificate has passed the HackerRank skill certification test View Certificate

Languages

- English
- Arabic

EDUCATION

Bachelor's Degree in Dentistry, *The British University in Egypt*
(GPA: 3.0/4.0)