

# Omar Fawzy

Junior Backend Engineer | Node.js, Laravel, MySQL | Passionate about Performance & Scalable Systems

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## SUMMARY

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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

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### 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**

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### **Languages** — Proficient

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

### **Databases** — Proficient

PostgreSQL, MySQL, MongoDB

### **Concepts** — Proficient

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

### **Soft Skills** — Proficient

Team Work, Fast learner and Problem solver

### **Frameworks** — Proficient

Express.js, Laravel, Django (basic)

### **Performance Tools** — Competent

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

### **DevOps Basics** — Competent

Docker, GitHub Actions, Render/Vercel deployment

## **CERTIFICATES**

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

Instructor: Dr. Angela Yu

[View Certificate](#)

### **SQL (Intermediate)**

The bearer of this certificate has passed the HackerRank skill certification test

[View Certificate](#)

### **Problem Solving (Basic)**

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

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### **SQL (Basic)**

The bearer of this certificate has passed the HackerRank skill certification test

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### **JavaScript (Basic)**

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## **Languages**

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- English
- Arabic

## **EDUCATION**

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