Mohamed Emad

Software Engineer
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SUMMARY

Software Engineer and Computer Science student with hands-on experience building full-stack web and mobile applications, REST APIs, and multi-tenant SaaS platforms. Works across backend development (Node.js, TypeScript, Laravel, Go, Python), databases (PostgreSQL, SQL), and cross-platform mobile development (Flutter, Dart). Has shipped production applications to Google Play, including real-time systems with geospatial matching, live tracking, payment integration, and role-based access control.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, Go, Dart, PHP, SQL
Backend: Node.js, Express.js, Laravel, FastAPI, Gin, REST API, JWT Authentication, Socket.IO, Prisma ORM
Frontend and Mobile: React.js, Flutter, BLoC/Cubit, Responsive UI
Databases: PostgreSQL, PostGIS, Firebase
DevOps and Tools: Docker, Linux, Git, GitHub
Concepts: System Design, Multi-Tenant Architecture, Object-Oriented Programming (OOP), Data Structures and Algorithms, Role-Based Access Control (RBAC)

WORK EXPERIENCE

Co-Founder and Software Engineer | DigiWay | Minya, Egypt

May 2024 - Present

- Co-founded a software company delivering web, mobile, and SaaS products for clients in Egypt, Saudi Arabia, and the UK.
- Design and build full-stack applications end to end: database schema, REST APIs, admin dashboards, and Flutter mobile apps.
- Shipped production mobile applications to Google Play, including a real-time taxi dispatch platform and an education management system.
- Integrate third-party services including payment gateways, Firebase push notifications, maps, and domain providers.
- Collaborate with clients and team members to scope requirements and deliver maintainable features.

PROJECTS

TaxiMatch - Taxi Dispatch and Driver Matching System

Technologies: Flutter, React.js, Node.js, TypeScript, Express.js, PostgreSQL, PostGIS, Prisma, Socket.IO, Firebase, Mapbox, GoCardless
Link: https://play.google.com/store/apps/details?id=com.app.taximatch.taxi_match_uk

- Developed a real-time taxi booking and dispatch platform consisting of a Flutter mobile app, a React.js admin dashboard, and a Node.js backend.
- Built the Flutter mobile application for drivers and operators to create, receive, match, track, and manage bookings.
- Built the React.js dashboard for managing users, bookings, documents, subscriptions, payments, disputes, notifications, and reports.
- Implemented the Node.js and TypeScript backend with Express.js, PostgreSQL, PostGIS, and Prisma, using Socket.IO for real-time communication.
- Implemented JWT authentication, role-based permissions, geospatial driver matching, live location tracking, and scheduled background jobs.
- Integrated Firebase push notifications, Mapbox maps, GoCardless payments, and document verification.

Web Creator - Multi-Tenant Website and E-commerce Platform

Technologies: Laravel, PHP, Multi-Tenant Architecture, Payment Gateway Integration, SEO

- Contributed to a multi-tenant SaaS platform that enables users to create and manage online stores from customizable website templates.

- Developed website creation workflows for selecting templates and managing products and content through an interactive editor.
- Implemented domain purchasing and custom domain connection directly within the platform.
- Built SEO-oriented website generation and rebuild workflows to improve search engine accessibility.
- Developed e-commerce features including payment gateway integration and sales management.
- Contributed to drag-and-drop content editing, template customization, and website version rollback.

Ajlcom - Automotive Marketplace Mobile App
Technologies: Flutter, Dart, REST API
Link: https://play.google.com/store/apps/details?id=com.jlcom.app
- Developed and maintained a cross-platform automotive marketplace application using Flutter.
- Built responsive UI, integrated REST APIs, and optimized application performance.
- Implemented authentication, vehicle listings, search, filtering, and user interaction features.
- Collaborated with the backend team to deliver scalable and maintainable features.

NAA - Education Management System
Technologies: Firebase, Firebase Cloud Messaging, Real-Time Chat
Link: https://play.google.com/store/apps/details?id=com.digiwaytec.naa.production
- Built a full-stack multi-role platform for online tutoring academies with Admin, Teacher, and Student roles.
- Implemented curriculum management, live session tracking, auto-graded exams, and a subscription and trial system.
- Developed dynamic teacher payroll and financial reporting.
- Integrated real-time Firebase chat and push notifications.

Fido Dido - Financial Management System
Link: https://fidodido.online
- Built a financial management system with secure transaction handling and customer and employee management.
- Implemented work-hour tracking, detailed financial and activity reports, and real-time notifications.

LHN Studios - Audio Production Website
Technologies: Laravel, PHP
Link: https://lhnstudios.sa
- Developed a website for a Saudi audio-production studio with an integrated admin dashboard for complete content management.

EDUCATION

Bachelor of Science (B.Sc.) in Computer Science | Minia University | Minya, Egypt
Sep 2023 - Present