

# ABDELRAHMAN MAHMOUD ALI YOUSSEF

Backend / Full-Stack Engineer

Giza, Egypt · Available to relocate to UAE or Saudi Arabia

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## PROFESSIONAL SUMMARY

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Backend-focused full-stack engineer with experience building production SaaS platforms, multi-tenant systems, and third-party integrations. Strong with Node.js, NestJS, TypeScript, and PHP/Laravel on PostgreSQL, MySQL, and Redis, designing REST APIs, payment and notification flows, webhooks, and queue-driven background jobs. Comfortable owning features end to end — from data model and API to background processing and deployment — with a focus on reliability, idempotency, and clean, maintainable code.

## TECHNICAL SKILLS

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**Languages:** TypeScript, JavaScript, PHP, SQL

**Backend:** Node.js, NestJS, Laravel, REST APIs, Webhooks, Server-Sent Events

**Frontend:** Next.js (App Router), React, Tailwind CSS

**Databases & ORMs:** PostgreSQL, MySQL, Redis, Prisma, Drizzle, TypeORM

**Queues & Background Jobs:** BullMQ, pg-boss, scheduled jobs, outbox pattern

**Architecture:** Multi-tenant SaaS, event-driven design, RBAC, idempotency, HMAC webhooks

**Integrations:** Stripe, Stripe Connect, Paymob, WhatsApp Cloud API, Google Calendar, Apple/Google Wallet, AI/LLM APIs

**DevOps:** Docker, GitHub Actions, CI/CD

**Practices:** Authentication & authorization, multi-tenancy, payment processing, API integration, automated testing

## PROFESSIONAL EXPERIENCE

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### Backend / Full-Stack Developer — RSTM Marketplace

Jan 2026 – Present

- Develop and maintain backend services for a multi-vertical, multi-tenant marketplace on a TypeScript monorepo, where shared infrastructure (authentication, payments, notifications) powers many storefronts from a single codebase.
- Worked on a PostgreSQL data layer with Drizzle ORM using sequential migrations, multi-tenant isolation, and an 8-role access-control hierarchy.
- Integrated Stripe Connect payments — vendor onboarding, charges, transfers, refunds, and escrow — with signature-verified webhook handling.
- Contributed to a multi-channel notification platform (email, SMS, push, in-app) with real-time Server-Sent Events over a Redis pub/sub bridge, backed by idempotent background workers and an outbox pattern.

### Backend Developer — Corporate Synergy Solutions

Jun 2025 – Jan 2026

- Developed and maintained a multi-tenant SaaS backend for an auto-detailing chain, handling bookings across multiple locations with real-time scheduling that helped prevent double-bookings.
- Implemented customer and service management modules with REST APIs, normalized relational models, and token-based authentication.
- Integrated Stripe payments with HMAC-validated webhooks and contributed to an AI-agent automation platform enabling conversational agents across chat, web, and voice, grounded in retrieval over a customer knowledge base.

## Full-Stack / PHP Developer — TSR Ventures & Solutions

Jun 2024 – Jun 2025

- Engineered a reusable-module PHP framework that reduced code duplication and improved development velocity across client projects.
- Implemented a Shopify integration layer with supporting dashboards connecting external commerce data to internal backend modules.
- Developed a Digital Asset Management system handling large media libraries with automated metadata extraction and indexing.

## Full-Stack Developer — Panel Misr

Jan 2024 – Mar 2024

- Developed the company website, admin dashboard, and a Laravel e-commerce platform with inventory management and order tracking.
- Implemented database-driven modules and admin features across frontend and backend.

## SELECTED PROJECTS

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### Nujoomy — Multi-Tenant Loyalty SaaS *(own product)*

NestJS · Next.js · PostgreSQL · Redis · BullMQ

Link: <https://app.nujoomy.com>

- Founded and developed a multi-tenant loyalty platform that issues digital loyalty cards to Apple Wallet and Google Wallet, updating live via push as staff scan a QR code to add stars and redeem rewards.
- Engineered the backend with per-tenant isolation, multiple authentication planes (JWT, Google OAuth, magic-link, TOTP 2FA), a versioned partner API with scoped keys and idempotency, and a BullMQ/Redis queue tier.

### Bookra — Salon & Coaching Booking SaaS

NestJS · Next.js · Prisma · PostgreSQL · Stripe

Link: <https://getbookra.com>

- Developed and maintained the backend for a multi-tenant booking platform with an availability engine and a financial back-office (invoices, refunds, commissions, payouts, expenses, revenue reporting) anchored on a single-writer ledger.
- Integrated payments with idempotent webhooks and multi-channel notifications (email, WhatsApp) delivered reliably through a transactional outbox and background queue.

### Phantoms — AI Content Automation Engine

NestJS · TypeScript · PostgreSQL · Redis · BullMQ

- Developed a multi-tenant NestJS backend automating short-form video production end to end — AI script generation, rendering, approval workflows, multi-platform publishing, and performance analytics.
- Designed a queue-based pipeline (BullMQ + Redis) with circuit breakers, retry/dead-letter handling, and multiple third-party AI and social integrations behind a clean provider-abstraction layer.

### TRC Integration Middleware

PHP 8.2 · Laravel 12 · MySQL · Queues · Docker

- Implemented legal-tech middleware connecting law-firm systems (Litify/Salesforce, Filevine) to a Zendesk ticketing backend, replacing manual data entry with automated, field-mapped ticket creation.
- Designed an event-driven, queue-backed Laravel architecture with OAuth 2.0 token management, HMAC webhook verification, idempotent processing, bidirectional status synchronization, and PHI/PII redaction.

## EDUCATION

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### B.Sc. in Computer Science — Helwan University, Egypt

2020 – 2024

## LANGUAGES

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Arabic (Native) · English (Professional Working Proficiency)