

Diaa Eldeen Elseady

Full-Stack Developer

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OBJECTIVE

Full-Stack JavaScript/TypeScript Developer with hands-on experience building modern web applications across frontend and backend. Skilled in React, Next.js, Node.js, Express.js, and NestJS, with experience in responsive UI development, API architecture, database-driven systems, authentication, real-time communication, caching, cloud services, and third-party integrations.

TECHNICAL SKILLS

Languages:	TypeScript, JavaScript (ES6+), HTML5, CSS3
Frontend:	React.js, Next.js, Redux Toolkit, TanStack Query, Tailwind CSS, Radix UI, Framer Motion, Bootstrap, Sass
Backend:	Node.js, Express.js, NestJS, RESTful API Design, GraphQL, MVC Architecture, Modular Architecture, Middleware Pattern, Scalable API Design
Real-Time:	Socket.io
Cloud:	AWS (EC2, S3, Lambda), Firebase (FCM), Cloudinary
Validation:	Joi, Zod, class-validator
Databases:	MongoDB, Mongoose
Caching:	Redis (Caching, OTP Handling, Rate Limiting, Session TTL)
Auth & Security:	JWT (Access/Refresh Tokens), NextAuth, Data Encryption & Hashing, Helmet, Express Rate Limiting, Google OAuth2
Integrations:	Stripe (Checkout, Webhooks), Cloudinary, Nodemailer, Node-Cron, Multer
Tools:	Git, GitHub, Postman, Vercel

EDUCATION

Bachelor’s Degree in Computer Engineering – Higher Institute of Engineering and Technology Beheira (BHI47)
Graduated: June 2026 | GPA: 3.05 / 4.00 (B+)

COURSEWORK

Front-End Diploma – Route	Jul 2025 – Jan 2026
Back-End Diploma – Route	Nov 2025 – Jul 2026
Web Design – NTI	Sept 2024 – Oct 2024

ACHIEVEMENTS

- Ranked Top Performer in both the Front-End and Back-End Diploma tracks across all branches of Route Academy.
- Scored 100% in the NTI Web Design Program.
- Earned A+ (100%) for the Graduation Project.



PROJECTS

1) SH Medical Lab - Full-Stack Medical Laboratory System

Live: sh-medical-lab.vercel.app | GitHub: [View Repository](#) | Postman: [View API Documentation](#)

Full-Stack Medical Lab System (Next.js 16, React 19, Node.js, Express 5, MongoDB, TypeScript)

Backend Highlights:

- Developed a complete lab request lifecycle (Pending → Attended → Sample Collected → In Progress → Completed) with dynamic result entry by parameter type, automatic evaluation against age/gender-segmented reference ranges, result locking, and PDF report generation using PDFKit.
- Built a multi-role JWT authentication and authorization system with RBAC, Zod validation middleware, Firebase push notifications, and security hardening using Helmet, rate limiting, and CORS.

Frontend Highlights:

- Built a Next.js App Router frontend with Server Actions as a secure proxy layer, keeping authentication tokens server-side via NextAuth, with domain-organized components for requests, results, tests, and notifications.
- Developed a specialist dashboard with step-by-step workflow controls and dynamic result entry forms, alongside a patient interface for test booking, appointment management, and downloadable PDF reports.

2) Noventra - Full-Stack SaaS Dashboard

Live: noventra-dashboard-front-end.vercel | Frontend: [View Repository](#) Backend: [View Repository](#) | Postman: [View API Documentation](#)

Enterprise SaaS Dashboard (React 19, Node.js, Express.js, MongoDB, Redis, Tailwind CSS v4)

Backend Highlights:

- Implemented atomic multi-product sales using MongoDB transactions, ensuring stock deductions, sale creation, and audit logging succeed or roll back together, with inventory restoration via bulkWrite on cancellation.
- Built Redis-backed dashboard analytics with event-driven cache invalidation for KPI and chart data.
- Developed unified Zod validation across body, params, query, and file inputs, plus Excel/PDF/Word export workflows supporting up to 5,000 records.

Frontend Highlights:

- Developed a role-based React dashboard for Admin, Manager, and Employee roles with protected routes, POS workflows, and stock-aware cart management.
- Built POS and sales workflows with debounced search, stock-based quantity controls, payment selection, and multi-format invoice generation.
- Implemented Recharts analytics, dynamic API-driven breadcrumbs, responsive layouts, animated UI states, and real-time notification updates.

3) Novyra Souq - E-Commerce Platform

GitHub: [View Repository](#) | Live: novyra-souq.vercel.app

E-Commerce Storefront (Next.js 16, React 19, TypeScript)

Frontend Highlights:

- Implemented NextAuth with JWT-based sessions and server actions for protected operations, alongside a scalable API service layer and TanStack Query for reactive data updates.
- Built complete user flows covering authentication, product discovery, cart and wishlist, checkout, profile management, and order tracking.
- Designed reusable components with Tailwind CSS and Radix UI, enhanced with Framer Motion animations and polished empty/loading states across responsive layouts.

4) E-Commerce API - NestJS

GitHub: [View Repository](#) | Postman: [View API Documentation](#)

NestJS 11, TypeScript, MongoDB, Redis, AWS S3, Stripe

Backend Highlights:

- Architected the NestJS API around a generic BaseRepository pattern, decoupling business services from Mongoose operations with custom authentication and authorization guards.
- Implemented a complete Stripe payment lifecycle with Checkout Sessions and webhooks, including refund handling that atomically restores stock, removes coupon usage, and unlocks the user's cart.
- Built secure e-commerce workflows with real-time stock validation, conditional stock deductions to prevent overselling, per-user coupon tracking, and AWS S3 uploads with automatic rollback on failed database operations.

LANGUAGES

Arabic: Native | English: Intermediate