

MOHAMED ABO EL-SEOUD

Backend Developer

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SKILLS AND FRAMEWORK

- Typescript
- Go
- Nest
- Laravel
- Graphql
- MongoDB
- PostgreSQL
- Redis
- Docker
- AWS
- React

MAIN PROJECTS

FRA Sandbox
NestJS / PostgreSQL / TypeORM / GraphQL Subscription

November 2024 – February 2025 Baianat Project

A fintech sandbox for Egypt's Financial Supervisory Authority to drive innovation, allowing startups, regulators, and investors to collaborate and test ideas.

- Built Multi-Role Authentication, supporting innovators (students, entrepreneurs, startups) and enablers (accelerators, NBFIs, VCs, companies).
- Implemented Hackathon Management with team discovery, role-based member management, and invitation flows for individuals and teams.
- Built Real-Time Discussion Boards with comments, replies, and notifications.
- Built Live Ticketing System for real-time support and issue tracking.

RIGOW
NestJS / PostgreSQL / Redis / GraphQL Subscription / TensorFlow

September 2024 – November 2024 Baianat Project

A social media app for athletes and sports enthusiasts that fosters engagement, allowing users to chat, share achievements through posts and reels, and explore training offers for private sessions with experts

- Built Real-Time Chat with message status tracking (sent, delivered, edited).
- Built AI-Driven Timeline using TensorFlow for content recommendations.
- Built Ranking System that prioritizes content based on user engagement.
- Implemented Rich Media Sharing, including images, videos, docs, and records.
- Implemented typo-tolerant Full-Text Search for exploring topics and profiles.
- Built Notification System with localized alerts and optimized batch delivery.
- Enabled Social Auth with OAuth2 OpenID for Facebook, Google, and Apple.
- Used Redis Pub/Sub for real-time GraphQL Subscriptions and updates.

FASILA
Express / MongoDB / Redis / Sockets.io / Docker / DigitalOcean

January 2024 – March 2024 Freelancing Project

A robust e-learning platform providing university students with affordable access to lectures, books, and PDFs, built with a focus on performance, security, and scalability.

- Utilized Worker Threads to optimize blocking intensive tasks.
- Ensured Data Integrity using MongoDB Transactions for purchases.
- Integrated Paymob for seamless and secure payments (card & wallet).
- Enforced Single-Session Restrictions to prevent account sharing.
- Secured content using Presigned URLs, CORS, and Encryption.
- Integrated WhatsApp API for cost-effective OTP delivery via QR codes.
- Deployed Dockerized services on DigitalOcean EC2 with Node clustering.
- Achieved high availability with Nginx Load Balancing and PM2 management.

WORK EXPERIENCE

Full-Stack Engineer at Nawy

April 2024 – Present El Maadi

- Developing microservices for a CRM system managing lead distribution, agent workflows, and organization-level targeting.
- Building services for lead assignment logic and performance tracking based on company-defined targets.

Backend Developer at Baianat

Aug 2024 - April 2024 New Damietta

- Designed and implemented robust backend systems for web and mobile applications using modern technologies such as GraphQL, PostgreSQL, NestJS and AWS services.
- Built e-commerce features, including chat, shipping workflows, feed management, and optimized search, with third-party integrations.

Backend Developer at Tuwaiq

Mar 2024 - July 2024 El Sheikh Zayed

- Built and maintained RESTful APIs with a focus on detailed documentation and seamless integration for mobile and front-end applications.
- Optimized backend performance by identifying and addressing bottlenecks, ensuring high efficiency and reliability.

EDUCATION

B.Sc in Computer Science
Mansoura University | GPA: 91.1%

Sept 2020 – Jul 2024

WORK FLOW

- Performance Optimization: Employed Dev-Tools, (MITM) Proxy, & Wireshark to conduct comprehensive analysis for performance.
- Utilized Version Control: Employed Git for proficient management of code alterations and fostering collaboration within the team.

CERTIFICATION

- NTI: Web Development using Node & React
- ITI: Backend Development using Laravel & php
- Udemy: Troubleshooting Backend Performance
- CNBC: 90% Most Common AWS Services