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

Backend Developer at **Baianat**

📅 Aug 2024 - Present   📍 El 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

TRAINING

- Full-Stack Web Development using Node and React **NTI / Digital Egypt Youth**
  📅 45 days x 6 hours

WORK FLOW

- **Performance Optimization:** Employed DevTools, (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