Mohamed Awad

Backend Developer (NodeJS)
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GitHub | LinkedIn

PROFESSIONAL EXPERIENCE

Route – Backend NodeJs (Internship)
04/2025 – 10/2025 | Remote
- Developed and maintained server-side applications.
- Built robust and scalable systems.
- Created and integrated RESTful APIs.

PROJECTS

E-commerce Platform (Backend) – Express.js / Node.js

Developed a full-featured E-commerce backend with product management, category management, user management (ban/unban + OTP), orders, Cart & Wishlist, and automatic total_price calculation.
Implemented online payments with Stripe and webhooks, email notifications using BullMQ, and queue management via BullBoard.
Optimized performance with caching (for bans, OTP, top products) and automated pending order cancellation after 4 days using BullMQ and node-cron.
API documented with Swagger, data validated with Joi, sensitive data encrypted with Asymmetric Encryption, deployed on AWS with MongoDB.
Technologies: Node.js, Express.js, MongoDB, AWS, Stripe, BullMQ, BullBoard, Swagger, Joi, Asymmetric Encryption, Caching, node-cron

Sarahah-Style Anonymous Messaging App

A fully-featured anonymous messaging platform inspired by "Sarahah" with secure user authentication and real-time notifications.
Key Features & Achievements: Implemented Google OAuth login and secure JWT-based authentication. Enabled anonymous messaging and threaded replies without revealing sender identity. Developed notification system for new messages and replies without exposing message content. Built transactional operations: delete user, logout from all devices, and cascade deletion of messages. Integrated email OTP verification for enhanced account security. Successfully deployed on EvenNode with MongoDB Atlas and Redis support. Applied validation middleware and security best practices for data protection.
Tech Stack: Node.js, MongoDB (Atlas), Redis, JWT, Email OTP, Google OAuth.

Course App

Course booking and management platform similar to the clinic system but with PostgreSQL.
Main Features: Course bookings, Signup&Login; with Google, Joi with high Validation Data, image uploads (Multer $\rightarrow$ Cloudinary), use transaction with delete category (delete course in category), send emails for confirmed Booked, search & pagination, Node-cron to delete the canceled Booking in DB.
Technologies: Node.js, Express, PostgreSQL, Sequelize, Multer, Cloudinary, node-cron, Day.js.

Clinic Booking System

Medical booking management with reminders and media support.
Main Features: Daily/monthly bookings, email reminders (node-cron), search, pagination, Cloudinary uploads, phone encryption.
Technologies: Node.js, Express, MongoDB, Mongoose, Cloudinary, Node-cron, Day.js.

Blog App

A full-featured blogging platform with posts and comments, media uploads, and secure auth.
Main Features: CRUD for posts/comments, upload images/videos using Multer, JWT auth, rate-limit on login, pagination, search, soft delete.
Technologies: Node.js, Express, mysql, sequelize, Multer, Redis, JWT, Helmet.

Notes App

Secure note-management system using cookies and strong security practices.
Main Features: JWT auth with cookies for refresh tokens, OTP email confirmation/reset, Redis for login attempts, encryption for sensitive data.
Technologies: Node.js, Express, MongoDB, Mongoose, Redis, Joi, Bcrypt.

SKILLS

NodeJS – ExpressJS – NestJS – TypeScript – Javascript – MongoDB – Mongoose – PostgreSQL – Sequelize – mysql – REST API – Git&GitHub; – Docker (basics) – AWS

EDUCATION

Faculty of Engineering – Mansoura University
Computer and Control Systems Department

CERTIFICATES

- SQL Course – Maharah
- MongoDB Course – Maharah