

Mohamed Awad

Junior Backend Engineer (Node.js | Express | NestJS)

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LinkedIn | GitHub

Professional Summary

Computer & Control Systems Engineering student with hands-on experience in backend development. Specialized in Node.js, Express, NestJS, TypeScript, and databases (MongoDB, MySQL, PostgreSQL). Proven ability to build scalable REST APIs, secure authentication systems, and optimized data models. Familiar with Docker basics and AWS (EC2, S3). Strong problem-solving mindset, passionate about delivering efficient solutions and contributing to dynamic engineering teams.

Technical Skills

Backend Development: Node.js, Express.js, NestJS, TypeScript, JavaScript

Databases: MongoDB, Mongoose, PostgreSQL, Sequelize, MySQL

APIs & Security: REST API Design, JWT Authentication, Joi Validation, Encryption, Error Handling

Cloud & Tools: AWS (EC2, S3), Docker (basics), Git/GitHub, PM2, Redis, Cloudinary

Other: System Design Basics, Networking Fundamentals

Professional Experience

Backend Intern – Route (04/2025 – 10/2025 | Remote)

- Developed and maintained backend services using Node.js, Express, and TypeScript.
 - Designed and optimized REST APIs, improving scalability and system performance.
 - Implemented JWT authentication and authorization, strengthening system security.
 - Worked with MongoDB & MySQL for structured and unstructured data management.
 - Deployed and tested apps on AWS EC2, managed file storage with S3, and containerized apps with Docker basics.
 - Collaborated in code reviews and knowledge-sharing sessions, enhancing team productivity.
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Projects

E-commerce Platform (Backend) – Node.js, Express.js, MongoDB, AWS, Stripe, BullMQ, Swagger, Joi

Built product, user, order, cart, and wishlist features. Integrated Stripe payments, BullMQ queues, caching, and cron jobs. Deployed on AWS.

Sarahah-Style Anonymous Messaging App – Node.js, MongoDB Atlas, Redis, JWT, Email OTP, Google OAuth

Implemented secure anonymous messaging, Google OAuth, notifications, and OTP verification. Deployed on EvenNode with Redis support.

Course App – Node.js, Express, PostgreSQL, Sequelize, Multer, Cloudinary, node-cron

Course booking & management system with Google login, transactions, validation, image uploads, and scheduled cleanup jobs.

Clinic Booking System – Node.js, Express, MongoDB, Mongoose, Cloudinary

Medical booking management with daily/monthly scheduling, reminders, media uploads, and phone encryption.

Blog App – Node.js, Express, MySQL, Sequelize, Redis, JWT

CRUD blog platform with posts, comments, media uploads, JWT auth, pagination, and rate-limiting.

Notes App – Node.js, Express, MongoDB, Redis, Joi, Bcrypt

Secure note-management with JWT refresh tokens, OTP email confirmation, Redis login attempt limits, and encryption.

Education

Faculty of Engineering – Mansoura University

BSc in Computer & Control Systems Engineering | Expected Graduation: 2028

Relevant Courses: Database Systems, Computer Networks, Web Development, Control Systems

Certificates

- SQL Course – Maharah
- MongoDB Course – Maharah
- Backend Development Training – Root Academy