

# Hossam Mohammed Ali Ashour

Backend NodeJS Developer

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## Summary

Back-End Developer specializing in building scalable web applications using Node.js. Experienced in designing and developing robust RESTful APIs with a focus on performance, security, and user experience.

## Technical Experience

Back-End Node.js Diploma – Route Academy

Military Service – Army Officer (2 years)

## Projects

### Social App:

- Built a RESTful API using Node.js, Express.js, and Sequelize ORM with MySQL.
- Designed database models (Users, Posts, Comments) with one-to-many relationships.
- Developed endpoints for user sign-up, post creation/deletion, and comment management.
- Implemented soft deletes and data validation for consistency.
- Optimized database interactions for efficiency and maintainability.

### Saraha App:

- An anonymous messaging platform that allows users to send and receive messages while keeping their identity hidden.
- Built using Express.js and MongoDB (Mongoose).
- Implemented JWT for authentication and authorization, Joi for data validation, and Nodemailer for email notifications.
- Added robust error handling to enhance security and ensure a stable user experience.

## Skills

**Programming Languages:** JavaScript (ES6+), Python

**Back-End:** Node.js, Express.js

**Databases:** MySQL, PostgreSQL, MongoDB (Mongoose), NoSQL

**ORM / ODM:** Sequelize, Mongoose

**Authentication & Security:** JWT, Bcrypt, Joi Validation

**APIs:** RESTful APIs, GraphQL

**Dev Tools:** Git, GitHub, Postman, Docker

**Other:** Socket.io, Multer (file uploads), Problem Solving

## Education

### Bachelor's Degree, Computer Engineering

Misr Higher Institute for Engineering and Technology (Sep 2019 – Jul 2023)

**Grade:** Very Good

#### Graduation Project:

**Using EEG Headset Based on AI and IoT to Help the Handicapped (Grade:Excellent)**

- Implemented MCAL drivers for Atmega32, PIC18F452, and ESP 8266.
- Developed HAL drivers for Servo Motors and DC Motors.
- Utilized UART, SPI, and I2C protocols to handle communication between MCUs.

## Awards

- Certificate of Participation, The International Telecommunications Conference (ITC Egypt 2021).
- Certificate of Participation, ACPC Programming Contest 2022.

## Activities

### Competitive Programming

- Participant in ACPC Programming Contest (2022).

Volunteer & Leadership

- **Volunteer at Met Community** (2022–2023).
- Co-Coach for ECPC Egyptian Collegiate Programming Contest (2023).

### Conferences & Hackathons

- International Telecommunications Conference (ITC Egypt ) 2021.
- International Science & Engineering Innovation Conference (ISEIC ) 2022.
- Cairo ICT 2023.

## Languages

- Arabic: Native
- English: Very Good (written & spoken )