



# Heba Ragheb Backend Developer (Node.js)

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## Profile

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Backend Developer specializing in **Node.js and Express.js** with hands-on experience in building **scalable and secure server-side applications**. Strong background in **RESTful API design, database management (MongoDB & SQL)**, and **authentication systems (JWT & OAuth)**. Experienced in developing **real-time applications** using **Socket.IO** and improving performance through **Redis caching**. Proven ability to build and maintain backend systems for **e-commerce platforms, booking systems, telemedicine applications, and admin dashboards**, with a strong focus on **clean code, security, and performance optimization**.

## Education

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### Zagazig University, Faculty of Engineering

2020 – 2025

B.Sc. in Electrical Engineering (Computer & Systems Department)

- Graduated with Very Good
- Graduation Project (A+): MesEase – A system bridging patients and healthcare providers

## Skills

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### Backend Development:

Node.js, Express.js, RESTful APIs, OAuth, Socket.IO, Redis, Email Services, PDFKit, Payment Integration

### Authentication & Security:

JWT (Access & Refresh Tokens), OAuth, Role-Based Access Control, Session Management, Data Protection, Security Best Practices

### Database Management:

MongoDB, Mongoose, SQL, Schema Modeling, CRUD Operations

### Frontend Development (Basic/Collaborative):

React.js, Redux, Context API, Tailwind CSS

### Team collaboration & communication

### Software Engineering:

OOP, Automated Validation, Git Version Control, Problem-Solving, Analytical Thinking

## Adaptability to new technologies

## Projects

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### MadEase – Healthcare Platform, Node.js, Express.js, React.js, MongoDB, Socket.IO, JWT, OAuth, Redis, Email Services, AI Chatbot, Vercel

- Developed a **full-stack telemedicine platform** connecting patients and healthcare providers.
- Implemented **real-time chat system** using Socket.IO for doctor-patient consultations.
- Built an **appointment booking system** with scheduling, slot validation, and automated notifications.
- Integrated **AI-powered chatbot** for 24/7 patient support and symptom assessment.
- Secured the platform using **OAuth social login** and **JWT authentication**.
- Enhanced performance using **Redis caching** and automated **email notifications**.
- Designed a **responsive UI** compatible with all devices.

### E-Commerce Store with Admin Dashboard & Payment System,

### Node.js, Express.js, React.js, MongoDB, JWT, OAuth, Redis, Clouinary, Payment Gateway Integration

- Developed a **full-stack online store** with secure payment integration and inventory management.
- Built an **Admin Dashboard** for managing users, products, orders, and analytics.

- Implemented **role-based access control** (Admin vs User) using JWT authentication.
- Designed and implemented **CRUD operations** for products, categories, orders, and users.
- Integrated **secure online payment system** with automatic stock updates and order validation.
- Handled **file uploads and image optimization** using Multer and Cloudinary.
- Optimized performance with **Redis caching** and efficient backend queries.
- Integrated **email notifications** for order confirmations and system alerts.

### **MERN Booking Application – Reservation Management System, MongoDB, Express.js, React.js, Node.js, JWT, Context API, Vercel**

- Developed a **full-stack reservation platform** with **real-time availability checking** and **automated booking management**.
- Implemented **JWT-based authentication** and **role-based access control** to secure user actions.
- Designed **dynamic slot validation logic** to prevent **double bookings** and ensure data consistency.
- Built **RESTful APIs** supporting full **CRUD operations** for reservations and users.
- Managed application state using **React Context API** and developed a **responsive user interface**.

## **Professional Experience**

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### **Cyber Ops Associate – NTI & ITIDA, Internship**

08/2024 – 09/2024

- Completed a 4-week cybersecurity training program, covering cyber operations fundamentals, security practices, and threat awareness.

### **Benha Electronic Company (Internship)**

07/2023 – 08/2023

- Gained practical experience in printed circuits, radar, and surveillance systems.
- Worked in solar panel production, electrical standards, and electronic card repair.
- Supported business decisions, reducing costs and improving efficiency.

## **Languages**

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- Arabic - Native
- English - Professional Working Proficiency