

# Hassan Ahmed Bahaa

## Node.js Backend Developer

### Contact Information

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### Profile

Experienced Backend Developer with expertise in Node.js, Express.js, NestJS, and TypeScript. Skilled in building scalable RESTful APIs, database design with MySQL and MongoDB, and implementing secure authentication systems. Proficient in Docker containerization, Redis caching, and cloud deployment. Dedicated to crafting efficient backend solutions that meet client needs. Strong problem-solving abilities and committed to delivering high-quality code following software engineering principles. Passionate about learning new technologies.

### Work Experience

#### Freelance

Backend Developer

#### Remote

October 2025 - Present

- Developed a complete E-commerce backend system using Node.js, Express.js, and MongoDB with Mongoose ODM, featuring 25+ APIs, 9 data models, and 15+ key features
- Built RESTful APIs for product catalog with advanced search, filtering, sorting, and pagination functionality
- Implemented secure authentication flow including signup with email activation, login, password reset, and JWT-based authorization
- Created comprehensive data models for products, categories, subcategories, brands, coupons, shopping cart, orders, and customer reviews with full CRUD operations
- Integrated Stripe payment gateway with webhook handling for secure payment processing
- Generated PDF invoices using PDFKit for completed customer orders
- Managed file uploads and image storage using Cloudinary CDN
- Applied Joi validation across all API endpoints and implemented role-based access control
- Deployed application on Vercel with proper CORS configuration for production environment

### Skills

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|----------------------------|---------------------------------------------------------------------------------------------|
| Backend Technologies:      | Node.js, Express.js, NestJS, TypeScript                                                     |
| Programming Languages:     | JavaScript, TypeScript                                                                      |
| Databases:                 | MySQL, MongoDB, Sequelize, Mongoose, Redis                                                  |
| API Development:           | RESTful API, GraphQL                                                                        |
| Authentication & Security: | JWT, Joi Validation, OAuth                                                                  |
| DevOps & Tools:            | Docker, Git & GitHub, Vercel, Stripe, Cloudinary, Nodemailer                                |
| Software Engineering:      | OOP, SOLID Principles, Data Structures, Design Pattern, Clean Code, MVC Architecture, Agile |

## Projects

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### **Job Search Platform**

**Node.js, Express.js, Mongoose, JWT, Joi Validation, RESTful API**

Built a full-featured job search platform backend with Node.js, Express.js, and MongoDB. Developed three main API modules: User Management (authentication, profiles, job seeker data), Company Management (employer profiles, company information), and Job Management (posting, searching, filtering). Implemented advanced job filtering by category, location, salary range, and experience level. Applied JWT authentication, Joi validation, and role-based authorization. Designed scalable database schema with proper relationships between users, companies, and job applications.

## Courses

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### **Backend Development with Node.js**

November 2024 - March 2025

Route Academy

## Education

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### **Assiut University**

Bachelor's Degree Computer Science

September 2019 - September 2023