

# Mostafa Nabil Elgazar

## Senior Backend Developer

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## Summary

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Senior Backend Engineer with 5+ years of hands-on experience designing and building scalable backend systems using Node.js, NestJS, PostgreSQL, and MongoDB. Specialized in microservices, event-driven architecture, and distributed systems. Experienced in leading backend architecture decisions, optimizing performance, mentoring team members, and delivering high-quality production services. Skilled in Docker, CI/CD pipelines, and cloud-based deployments.

## Skills

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### Backend Development

Node.js, Express.js, NestJS, RESTful APIs, Microservices Architecture, Event-Driven Design, RabbitMQ, Unit Testing, CI/CD

### Frontend Development

React.js, Redux, HTML, CSS, Bootstrap

### Databases

PostgreSQL, MongoDB, Mongoose, TypeORM, Database Design & Optimization

### Development Methodologies

Agile, Scrum

### Tools & Technologies

Git, Swagger (API Documentation), Docker

### Soft Skills

Problem Solving, Code Reviews, Knowledge Sharing, Collaborative Teamwork

## Deployment & Infrastructure

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- Dockerized microservices and configured automated CI/CD pipelines
- Familiar with cloud deployment and orchestration concepts
- Implemented monitoring & logging using tools such as Grafana / Prometheus / Kibana
- Experience with Redis caching, message queues (RabbitMQ), and API security best practices (JWT, RBAC).

## Work Experience

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### Backend developer, Obeikan Digital Solutions

2022/06 – present

Cairo, Egypt

- Designed and led the implementation of **microservices architecture**, improving system scalability and fault isolation.
- Built **high-performance backend APIs** and complex business logic using **Node.js (NestJS)** and PostgreSQL.
- Implemented **event-driven communication** using RabbitMQ, reducing service coupling and improving reliability.
- Optimized database schemas and queries, **reducing response time by up to 40%** across core services.
- Introduced **Redis caching** and request rate limiting to enhance performance and stability.
- Participated in **architecture and code review** sessions; mentored junior developers and helped enforce clean code practices.
- **Dockerized services** and integrated CI/CD pipelines to automate testing and deployment workflows.

### Backend Developer, GermaniaTek

2021/10 – 2022/06

Nasr City

- Developed and maintained REST APIs supporting real-time collaboration features for mobile applications.
- Implemented secure authentication (JWT) and role-based access control for user and admin dashboards.
- Improved data access performance through query optimization and proper indexing in PostgreSQL/MongoDB.

- Delivered features in an Agile environment and contributed to design discussions and backend planning.

#### **Backend Developer, Egyptian Engineering Group**

2021/06 – 2021/09  
Cairo

- Developed **APIs** for mobile applications focused on real-time content collaboration and editing, enhancing user experience and application responsiveness.
- Built and maintained a **CRM system**, enabling efficient management of content and improving workflow automation for internal teams.
- Worked in an agile environment, delivering high-quality features on time and adhering to coding standards and best practices.

Regularly conducted code reviews, documented service architecture, and mentored junior developers to align the team with best engineering practices.

## Projects

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### **Madar, logistics app**

2022/06 – present

- Led backend development of logistics modules including real-time tracking, cost optimization, and routing.
- Designed microservices and event-driven workflows supporting scalable multi-region operations.
- Improved request latency and reduced server load through caching and database performance tuning.

### **E-commerce website**

2019/08 – 2019/10

Designed and developed an **e-commerce website** with full integration for shopping cart functionality, order processing, and payment systems

### **Ordering food app**

2021/11 – 2022/01

- Contributed to building APIs for a **food ordering app**, handling user orders, and real-time delivery tracking.
- Designed and developed an **admin dashboard** to manage restaurant data, orders, and customer interactions.

### **Weather Forecasting and Prediction “Graduation project”**

2019/03 – 2021/06

It was an iot based project which responsible for predicting the weather for the coming 3 days with accuracy 94% and provide data for current weather.

## Education

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### **BSc. of Computer Science, Benha University**

2015 – 2019  
Benha, Egypt

## Languages

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- Arabic (Native)
- English (very good)