

# Mohamed Mostafa

Software Engineer

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**Country:** Egypt    **City:** Banha    **Exempted**

## About me

I'm a software engineer with 4+ years of experience in web development, specializing in backend development with Node.js and AWS (EC2, S3). I've recently expanded into frontend development and continuously seek to grow by exploring new technologies and working across diverse environments.

## Work Experience

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### Lesoll:

2023 – Present

- Built and maintained three major backend system:
  - Property API:
    - Designed RESTful APIs to manage property listings, including draft, publishing, search filters and featured (Pinned and Repost Functionalities)
  - Car API:
    - Developed a separate API to manage car listings, brands, models, advanced search and package-based features
  - Admin Dashboard:
    - Built as secure dashboard backend with role-base access control for managing users, listing ads, package and financial reporting
    - Built Real-time analytics views to monitor traffic and user behavior.
    - Implemented tracking of **user traffic sources** by country, **UTM parameters**, and **referral platforms** (e.g., Google, Facebook, direct).
    - Built a real-time chat system using **Socket.io**, enabling admin to communicate within the platform.
- Infrastructure & Deployment:
  - Managed three servers for backend deployment:
    - **EC2**: handle property api, car api and image server cloud.
    - Configured **NGINX** for reverse proxying and load balancing on **EC2 (Ubuntu)**
    - **Render**: deployed admin dashboard backend.
- Built a subscription and point-base system allowing users to activate premium feature.
- Integrated SendGrid for transactional emails communication and Paymob for payment processing with automated status handling.
- Generated PDF invoice using Puppeteer.
- Implemented Docker containers for consistent deployment and local development environments.
- Technologies:
  - Node.js, Express.js, MongoDB(mongoose), Typescript, Redis, Puppeteer, SendGrid, Paymob, Docker, AWS (S3, EC2, Route 53 and CloudFront) and swagger

## Projects

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- **Wedding Organization System (*Graduation Project – Backend Developer*)**
  - Developed the complete backend system for a web application that organizes wedding services.
  - Built RESTful APIs to support service listings, rentals, and ad management.
  - Implemented CRUD operations for users, ads, and service providers.
  - Designed backend logic to handle service rental workflows, availability checks, and booking records.
  - Integrated authentication and role-based access control for users and service providers.
  - Tech Stack: Node.js, Express.js, MongoDB, Mongoose, JWT
- **Elrecord: Real-Time Chat Application (Backend Developer):**
  - Developed the full backend for a **chat application** that allows users to chat with friends in real-time.
  - Built using **Express.js, TypeScript, Socket.io, MongoDB (Mongoose),** and **Redis** for efficient session management and message broadcasting.
  - Deployed the application backend to Render for scalability and simplicity.
  - Implemented user authentication, message history storage, and online/offline status tracking.
  - **Tech Stack:**  
Node.js, Express.js, TypeScript, Socket.io, MongoDB, Redis, Render

## Education

**Bachelor of Computer Science**

Modern Academy – Maadi, Cairo

*Courses:* Data Structures & Algorithms, Java OOP, Web Applications, C++ Program Design, Big Data Analytics.

**Graduation: Jul 2022**

## Language

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Arabic (Native speaker), English (Intermediate)