ASEM AHMED

Backend Developer

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SUMMARY

I am a web Developer specialized in backend development using Node.js and it's ecosystem like Express.js and Nest.js, Developed scalable and high performance applications, including e-commerce platforms, and media applications, skilled in Restful APIs, database management, and optimizing backend performance, Passionate about problem-solving, scalability and performance optimization.seeking opportunity to contribute to dynamic teams and building cutting edge backend solutions.

EDUCATION

Bachelor's Degree in computer science,   09/2021 – 07/2025
Faculty of computer and artificial intelligence Damietta university   Damietta, Egypt

PROJECTS

social media microservices project ⧉
- Developed a scalable social media microservices project which consists of 5 microservices interacting with each other using RabbitMQ to and express proxy server to map the requests to the different services ,
- Designed a secure authentication using JWT and ensured seamless scalability
- Added Rate limiting for ensuring the security against brute force attacks and logging functionality to make errors debugging easier

Threads App API ⧉
- Developed a Threads app Api clone with chating capability using NestJs, Postgres and web sockets to implement features like creating posts, interacting with other posts by liking and writing comments, suggested accounts, the user can also like and reply to posts comments, follow users, freeze his account, and chat with other users. The chat supports sending text and images

E-commerce API ⧉
- Created a scalable E-commerce backend using ExpressJs, MongoDb, TypeScript, Redis for caching and enhancing performance, JWT for authentication, role based authorization, implement features like stripe payments, Shopping cart, file uploading and orders analytics

Complete authentication system ⧉
- Built a complete and robust authentication system using ExpressJs, JWT, OAuth and implemented features like email verification, forgot password and resetting passowrd via an email
- implemented a full Google OAuth authentication flow with access and refresh tokens, enhancing the user experience with keeping the user logged in by creating new access tokens using the refresh token

Incubator Reservation System (Graduation Project) ⧉
- We developed a babies Incubator system which provides a CRUD REST API for incubators which Defines incubator properties such as model, capacity, availability and built a search functionality to find the nearest hospital with the suitable incubators.
- And built an REST API for Reservation Management which Associate reservations with specific incubators and time slots.
- Manage user access and permissions for reservation creation and modification. And we handled authentication using JWT

SKILLS

backend technologies
NodeJS, ExpressJS, Nest.JS, MongoDB, mongoose, Postgres, Prisma, Redis, RabbitMQ, Docker

Frontend technologies
Html, CSS, javascript, typescript, React.js

Concepts
Problem solving, Data Structures, Algorithms, OOP, SOLID,
RESTful APIs, Microservices, GraphQL, WebSockets, Version
Control (Git)