

ASEM AHMED

Backend Developer

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SUMMARY

I am a web Developer specialized in **backend development** using **Node.js** and its 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

Faculty of computer and artificial intelligence Damietta university

09/2021 - 06/2025

PROJECTS

Incubator Reservation System (Graduation Project :Grade excellent)

<https://github.com/asemahmedghareeb/Baby-incubator-system-api->

- 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**

social media microservices project

<https://github.com/asemahmedghareeb/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 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

E-commerce API

<https://github.com/asemahmedghareeb/E-commerce-API>

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

Complete authentication system API

<https://github.com/asemahmedghareeb/authentication-system-API>

- Built a complete and robust **authentication system API** using **JWT** and features like **email verification** , **forgot password** and resetting it **via email** and
- 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 token using the **refresh** token

SKILLS

backend technologies: NodeJS, Express.JS, Nest.JS, MongoDB, Postgres-SQL, Redis, Prisma, RabbitMQ, Docker,

Frontend technologies: React.js, html, CSS, java script, typescript

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