

# ASEM AHMED

## Backend Developer

☎ +201067789574 @ asemelbadahy@gmail.com 🔗 <https://asem-ahmed-portfolio.netlify.app/>  
🔗 <https://www.linkedin.com/in/assem-ahmed-245a4b205/>

## 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

Faculty of computer and artificial intelligence Damietta university

## PROJECTS

### 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

### 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**

### Threads App API

🔗 <https://github.com/asemahmedghareeb/Threads-social-media-app-api>

- Developed **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

🔗 <https://github.com/asemahmedghareeb/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

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

- Built a complete and robust **authentication system** using **ExpressJs**, **JWT**, **OAuth** and implemented features like **email verification** , **forgot password** and **resetting password** 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

## SKILLS

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

## SKILLS

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

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