

Mohamed Elsayy

Backend Engineer

Cairo, Egypt | +20 122 496 1715 | mohamedd.sawyy@gmail.com | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

Summary

Backend Engineer specializing in Node.js, Express.js, and NestJS, with hands-on experience building scalable RESTful APIs, real-time services, and microservices-based systems for logistics, e-commerce, and AI-powered multi-channel commerce platforms. Skilled in relational and NoSQL data modeling (PostgreSQL, MySQL, MongoDB, Redis), CI/CD automation, and containerized deployments. Known for writing maintainable, MVC-driven code and collaborating closely with frontend teams to ship reliable, production-ready features.

Experience

Trego Tech — Backend Engineer

Nov 2024 – Present

- Engineered the full backend of the Trego delivery app (live on Google Play), a logistics platform connecting drivers and customers in real time.
- Architected a microservices-based backend with Express.js, Sequelize, and MySQL for order management, tracking, driver assignments, and secure payment integrations.
- Built and maintained the backend for Rabta, an AI-powered multi-channel commerce platform integrating Amazon, Shopify, Noon, Jumia, Trendyol, Zid, and WooCommerce.
- Designed a NestJS microservices architecture for Rabta enabling independent scaling of catalog, inventory, and order services, backed by optimized PostgreSQL schemas.
- Developed a seller dashboard for multi-marketplace product, order, and analytics management, contributing to the Next.js frontend where it integrated with backend APIs.
- Led code reviews and enforced MVC design patterns to improve long-term maintainability.

InfiniaDev — Backend Engineer

May 2024 – Nov 2024

- Built and maintained scalable backend services for multiple client-facing web applications using Node.js, Express.js, and MongoDB.
- Designed and implemented RESTful APIs following clean architecture principles.
- Optimized database queries and server performance to handle increased traffic loads.
- Collaborated with cross-functional teams to deliver features on time and at high quality.

Education

Bachelor of Computer Science — Faculty of Computers and Information, Menofia University

Sep 2020 – Jul 2024

Projects

Rabta — Backend Developer (Full-Time)

NestJS, Express.js, PostgreSQL, REST API, Docker, AI/ML Integration

- Built the backend for an AI-powered multi-channel commerce platform helping businesses sell across Amazon, Shopify, Noon, Jumia, Trendyol, Zid, and WooCommerce from a single dashboard.
- Engineered catalog sync, inventory management, unified order management, and AI-driven analytics APIs.

ANA — Backend Engineer (Freelance)

Express.js, Multer, Jenkins, Sequelize, MySQL, Docker, Nginx

- Built a comprehensive backend system for itsana.shop, an Egyptian e-commerce platform, with an admin dashboard API supporting product customization, user analytics, and multi-vendor support.
- Configured an Nginx reverse proxy and automated deployments with Jenkins; integrated payment, shipping, and analytics APIs.

Sawa App — Backend Developer (Freelance)

Express.js, Socket.IO, MongoDB, Mongoose, Jenkins

- Delivered a real-time group chat service for drivers and customers using Socket.IO, live on the App Store.
- Implemented backend logic with Mongoose, structured around MVC architecture to support scalability.

Caro — Backend Developer (Freelance)

Node.js, Express.js, MySQL, REST API, Docker

- Built the backend for itscaro.co, a modern e-commerce and service platform.
- Engineered APIs for product management, secure user authentication, and third-party integrations.

AH Project — Health & Wellness App — Backend Developer

- Contributed to the backend of a fitness-oriented app focused on data privacy, secure API design, and efficient data handling.
- Built data analytics endpoints to surface health insights to users.

Skills

Languages: TypeScript, JavaScript, HTML, CSS, Bash

Backend: Node.js, Express.js, NestJS, WebSocket, Socket.io, REST API, MVC

Database: PostgreSQL, MySQL, Sequelize, MongoDB, Mongoose, Redis

DevOps: AWS, Docker, Nginx, Jenkins, CI/CD (GitHub Actions), Vercel

Architecture: Microservices, Clean Architecture, API Design, Multitenant Systems

Tools & Integrations: Next.js, Firebase, Stripe / Payment APIs, Multer, Git, Postman

Languages

Arabic: Native

English: Professional

Reference

Available upon request