

Muhammed EL-Jundy

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Professional Summary

Passionate and results-driven Backend Developer specializing in **Node.js** and **Express.js**. Expert at designing and implementing scalable **RESTful APIs**, and clean architectures. Demonstrated ability to optimize application performance, containerize services with **Docker**, and collaborate across cross-functional teams. Looking to leverage hands-on Node.js project experience and AI/model training background in a dynamic internship or entry-level back-end role.

Education

University of Ain Shams, BS in Computer Engineering Sept 2021 – Present

- GPA: 3.1/4.0
- Coursework:** Data Structures and Algorithms, Software Design Patterns, Database Systems, Operating Systems

Experience

AI Trainer & Model Coder Aug 2024 – Sep 2024
National Telecommunication Institute, Cairo, Egypt

- Annotate and refine datasets to train ML models, improving prediction accuracy by an average of %.
- Built a real-time sign language detection system using YOLOv8 and OpenCV, capable of identifying individual letters from webcam input.
- Develop automation scripts in Python to streamline data preprocessing and model evaluation, reducing manual effort by 30%.
- Fine-tuned pre-trained YOLO models on a custom ASL dataset and deployed the solution in a lightweight Python app.

Projects

Distributed Online Marketplace Django | FastAPI | PostgreSQL GitHub

- Architected and modularized a Django-based e-commerce platform into microservices (users, products, orders), improving maintainability and enabling parallel development.
- Designed and implemented PostgreSQL-backed RESTful endpoints for core workflows (stock validation, order processing, user roles), ensuring data integrity and efficient querying.
- Deployed the PostgreSQL database and backend services to a cloud-hosted environment, ensuring reliable access and system availability

Saraha App Nodejs | RestfulAPI | Mongoose GitHub

- Developed the back-end of an anonymous messaging platform inspired by NGL and Saraha, using Node.js, Express.js, and MongoDB ODM (Mongoose).
- Built secure and scalable RESTful APIs with JWT-based authentication and social Bearer Auth via Passport.js (Google).
- Integrated bcrypt-encrypted message handling, role-based access control, session management, and automated email notifications using Nodemailer.

Task Tracker JavaScripts(ES6+) | Nodejs | Yargs GitHub

- Built a Task Tracker CLI using Node.js to manage tasks via terminal commands with support for adding, updating, deleting, and status filtering.
- Implemented local data persistence using a JSON file for lightweight, dependency-free storage.
- Packaged and globally linked the CLI tool for seamless use with a custom **task-cli** command across any

environment.

Technologies

Languages: C++, C, Java, Python, C#, SQL, NoSQL, JavaScript, Node.js, Express.js

Technologies: Docker, Git, MongoDB Compass, MongoDB sh, Mongoose, Sequelize, VSCode, Postman, NPM