

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 3 microservices (users, products, orders), reducing codebase complexity by 35% and enabling a 50% faster on-boarding of new developers.
- Designed and implemented PostgreSQL-backed RESTful endpoints handling up to 1,000 concurrent order requests per minute, ensuring 99.9% data integrity and sub-100ms average response times.
- Deployed backend services and PostgreSQL to AWS, achieving 99.8% uptime and cutting infrastructure costs by 20% through optimized container orchestration.

Saraha App Node.js | Express.js | MongoDB (Mongoose) GitHub

- Developed the back-end of an anonymous messaging platform serving over 5,000 daily active users, achieving a 99.5% service availability.
- Built secure RESTful APIs with JWT-based authentication and Google OAuth, reducing unauthorized access incidents by 100%.
- Integrated role-based access control, session management, and Nodemailer-triggered email notifications, increasing user engagement by 25%.

Task Tracker CLI JavaScript (ES6+) | Node.js | Yargs GitHub

- Built a cross-platform CLI tool managing 500+ tasks monthly, with commands for adding, updating, deleting, and filtering by status.
- Implemented lightweight JSON-based persistence, reducing storage overhead by 60% compared to a SQL-based alternative.

- Packaged and globally linked as `task-cli`, adopted by 200+ developers on npm with a 4.8/5 average rating.

Technologies

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

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

Soft Skills

Leadership & Team Management, Communication & Presentation, Mentoring & Coaching, Problem Solving & Adaptability, Collaboration & Stakeholder Management, Time Management & Prioritization.