

Mahmoud Ragab Omara

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Professional Summary

Software Engineer | Backend Development

Software Engineer specializing in backend development with hands-on experience developing scalable RESTful APIs, optimizing databases (MySQL, MongoDB), and implementing secure authentication systems (JWT) using Node.js and Express.js. Strong foundation in Computer Science & AI, with proven ability to collaborate in teams, adapt quickly, and solve complex problems under pressure. Experienced in agile development environments and committed to delivering maintainable, production-ready code. Focused on delivering clean, maintainable code and continuously expanding technical expertise to drive reliable backend solutions.

Education

BSc in Computer Science and Artificial Intelligence.

Helwan University | Graduated in 2024 | GPA: 3.3 / 4.0

- Graduation Project: Attendance System Using Face Recognition.

Technical Skills

Backend: Node.js, Express.js, PHP, REST APIs, JWT.

Databases: MySQL, MongoDB, SQL.

Frontend: React, JavaScript (ES6+), Bootstrap, HTML, CSS.

Tools: Git/GitHub, Postman, XAMPP.

Programming Languages: Python, C, Java.

Professional Experience:

Freelance Backend Developer | Remote.

Booking Appointment System | May 2023 - Jul 2023

- Developed a booking system used by 50+ professors and 500+ students, reducing scheduling conflicts by 30%.
- Designed secure RESTful APIs with Node.js/Express.js, improving response times by 25%.
- Managed 5,000+ student records in MongoDB, ensuring high data availability.
- Implemented JWT authentication, reducing unauthorized access attempts by 40%.
- Collaborated with a team of 3 developers on GitHub, resolving issues 20% faster.

Tech Stack: Node.js, Express.js, MongoDB, Git, JWT, REST APIs.

Learning Management System (LMS) | Jul 2022 - Oct 2022

- Engineered a PHP back-end serving 200+ students, ensuring stable data workflows.
- Optimized MySQL queries, reducing data retrieval time by 40% and speeding up report generation.
- Customized Bootstrap UI and added JavaScript features, boosting user engagement by 15%.
- Independently maintained and deployed the system, delivering 95% bug-free performance.

Tech Stack: PHP, MySQL, JavaScript, Bootstrap, XAMPP.

Academic Projects:

Attendance System Using Face Recognition (Graduation Project) | Oct 2023 - Jun 2024

- Engineered RESTful APIs with Node.js/Express.js to manage 10,000+ attendance records.
- Implemented JWT authentication/authorization, improving data security for 100+ users.
- Optimized MySQL schema, reducing query execution time by 35%.
- Coordinated with front-end developers to achieve zero integration issues.

Tech Stack: Node.js, Express.js, MySQL, JWT, RESTful APIs.

Off-road Assistance Platform (Sal7ly) | May 2022 - Jun 2022

- Delivered platform prototype for local drivers, deployed within 1-month deadline.

- . Created a responsive front-end with (HTML, CSS, and JavaScript), improving usability score by 20% in testing.
- . Designed PHP back-end to process real-time service requests, supporting 100+ concurrent users.
- . Indexed MySQL database, reducing query delays by 25%.

Tech Stack: PHP, MySQL, HTML, CSS, JavaScript, XAMPP.

Certificates:

Backend Development:

- . The Complete Node.js Course - RESTful APIs with Node.js, Express & MongoDB - (ITI Mahara-Tech) (2024).
- . Introduction to MongoDB - (ITI Mahara-Tech) (2023).
- . Building Web Applications with PHP & MySQL - (ITI Mahara-Tech) (2023).

Programming Foundations:

- . Python Programming Basics - (ITI Mahara-Tech) (2023).
- . JavaScript - (ITI Mahara-Tech) (2023).
- . Modern JavaScript (ES6+) - (ITI Mahara-Tech) (2023).

Best Practices:

- . Clean Code & Maintainable Structures - (ITI Mahara-Tech) (2023).

Languages

- . Arabic - Native.
- . English - Very good.