

# Salma Ahmed Attia

## Back-End Developer

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### PROFILE

#### Back-End Developer | Fresh Graduate

A motivated Back-End Developer with a solid foundation in Node.js, Express, MongoDB, and RESTful APIs. Recently graduated with hands-on experience in building scalable and efficient server-side applications. Eager to apply my skills in a dynamic, growth-oriented environment, contributing to robust software solutions.

### PROFESSIONAL EXPERIENCE

#### Contestant

Egyptian Collegiate Programming Contest (ECPC)

2021 – 2022

Alexandria, Egypt

- Used problem-solving skills and c++ language to solve problems in the Egyptian Collegiate Programming Contest.
- Required high team-work skills and working under stress

#### Back-end Developer Trainee

Manara (remote)

07/2024 – present

Cairo, Egypt

- Gained hands-on experience in backend development using Node.js.
- Implemented database schemas and optimized queries for performance.
- Collaborated with mentors and team members to solve real-world problems and enhance backend functionality.

#### Software Engineer Trainee

Orange Digital Center (hybrid)

11/2024 – 01/2025

Cairo, Egypt

- Explored advanced concepts in Software Engineering, including SDLC, Agile Development, and CI/CD Pipelines.
- Gained expertise in Software Development Frameworks and Object-Oriented Programming (OOP).
- Acquired practical experience with Git, debugging techniques, and software testing.

#### Back-end Developer

Runsoft (on-site)

02/2025 – present

Cairo, Egypt

- Developed and maintained backend services using **PHP Laravel**, ensuring secure and scalable APIs.
- Designed and optimized database schemas, queries, and migrations for MySQL.
- Wrote clean, well-documented, and testable code following modern software development best practices.
- Participated in code reviews and agile development processes, improving overall team productivity.

### EDUCATION

#### Bachelor of Computers Science and AI – Computer Science Department

Matrouh University

2020 – 2024

Matrouh, Egypt

Faculty of Computers and Artificial Intelligence

Grade: 3.3

### PROJECTS

#### Graduation project: Object car following system

(utilizing an ESP32-CAM, ultrasonic sensors, infrared technology, and Arduino for algorithm implementation.)

##### 1- Sensor Module:

- Utilized ultrasonic and infrared sensors for precise distance measurement and object detection.

##### 2- Bluetooth Module:

- Established seamless communication between leader and follower vehicles using HC-05 Bluetooth modules.

- Integrated with an MIT App Inventor application for real-time control and synchronization of vehicle movements.

### 3- Camera Module:

- Employed an ESP32-CAM for computer vision to enhance object recognition and tracking.

### Advanced User Management and Real-Time API System

- **User Authentication:** Login, registration, and protected routes with role-based access control.
- **API Documentation:** Postman collection setup for streamlined API testing and collaboration.
- **File Uploads:** Integrated file upload functionality using Multer.
- **Real-Time Communication:** Implemented real-time updates using WebSockets and Socket.IO.
- **Pagination & CORS:** Efficient data retrieval with pagination and cross-origin resource sharing support.
- **Error Handling:** Centralized error handling following the jSend specification for consistent API responses.
- **Environment Configuration:** Used dotenv for secure environment variable management.
- **Database:** Integrated MongoDB for data storage and management.

### Project Management Task

- **User Authentication:** Secure login, registration, and role-based access control with protected routes.
- **API Documentation:** Streamlined API testing and collaboration using Postman collection.
- **File Uploads:** Integrated file upload functionality with Multer.
- **Real-Time Communication:** Real-time updates implemented using WebSockets and Socket.IO.
- **Pagination & CORS:** Efficient data retrieval with pagination and cross-origin resource sharing support.
- **Error Handling:** Centralized error handling with jSend specification for consistent API responses.
- **Environment Configuration:** Secure environment variable management with dotenv.
- **Database:** MongoDB integration for robust data storage and management.

### Finance Tracking System

*Full-Stack Project | React, Node.js, Express, MongoDB, JWT, Mongoose*

- Built a secure, user-focused finance tracking app using **Node.js**, **Express**, **MongoDB**, and **JWT**.
- Developed **RESTful APIs** for income and expense management with real-time balance calculations.
- Designed **Mongoose data models** and implemented user-specific dashboards with data isolation.
- Integrated **authentication middleware**, conducted API testing with **Postman**, and used **Git** for version control.
- Developed core features including **income/expense addition and deletion**, **real-time balance calculations**, and **transaction history** views.

## SKILLS

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### Technical Skills:

**Languages & Frameworks:** JavaScript (ES6+), TypeScript, Python, Node.js, Express.js, HTML, CSS.

**Databases & APIs:** MongoDB, PostgreSQL, MySQL, RESTful APIs, WebSockets, JWT.

**DevOps & Tools:** Docker, CI/CD pipelines, Git, GitHub, Postman.

**Software Practices:** OOP, MVC architecture, Caching, Pagination, Input Validation, Error Handling.

**Additional Skills:** Agile Development, Testing, Debugging, SDLC, Design Patterns.

### Soft Skills:

Problem solving | Communication skills | Presentation skills | Critical Thinking | Team work

## LANGUAGES

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Arabic



English

