

MERNA MAHMOUD TERA

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SUMMARY

Detail-oriented Full Stack Web Developer specializing in **open-source technologies** and the **MERN** stack. Skilled in building secure backends, responsive frontends, and scalable applications. Strong in **problem-solving, time-management, and communication**. Recent graduate of the **9-month Open-Source Applications Development track at ITI** with hands-on experience in real-world projects.

EDUCATION

9-Month Postgraduate Diploma, Professional Training Program, **October 2024 – July 2025**
Information Technology Institute (ITI), Mansoura, Egypt.

- **Track: Open-Source Applications Development**
- **Job Profiles:** Full Stack Web Developer, Backend Developer, Frontend Developer, MEAN Stack Developer, MERN Stack Developer
- **Activities:**
 - Trained in **full-stack development** using MERN, PHP, Python, and Vue.js.
 - Proficient in **frontend** (ReactJS, Angular, VueJS) and **backend** (Node.js, MongoDB, MySQL) technologies.
 - Studied **Data Structures, Algorithms, Operating Systems, and Computer Networks**.
 - Experienced in **Agile, Git, cloud computing, and application security**.
 - Completed **workshops** on Next.js, Nest.js, GraphQL, and freelancing.
- **Graduation Project:** "CommuniTI - Event Management Website"
 - **Frontend:** (React.js, Tailwind)
 - **Backend:** (PHP, Laravel)

Bachelor of Engineering, Faculty of Engineering, Mansoura University **Sep 2015 - Jan 2021**

- Specialization in Biomedical Engineering
 - **Grade:** 2.73 GPA (**Very Good**)
 - **Graduation Project:** "Medical Equipment needs assessment software system for Healthcare Organizations"
 - **Grade:** A+ (Excellent)
 - **Frontend:** (html, css, bootstrap, javascript)
 - **Backend:** (python, django)
 - **Frameworks:** (Brackets, PyCharm)
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PROFESSIONAL TRAININGS AND COURSES

Foundations of User Experience (UX) Design (Online) **January 2025**

- **Hours:** 13 hours (approximately)
- **Grade Achieved:** 87.55%
- **Skills:** Foundational concepts in UX design, such as **user-centered design**, the design **process, accessibility, and equity-focused design**.

PROJECTS

Infinity Academy — Multi-Branch Education ERP | Full Stack Developer

July 2026

- **Tech Stack:** Laravel, PHP, Blade, Tailwind, MariaDB.
- **Description:** Built a multi-branch education ERP with complete per-branch data isolation, lead-to-enrollment pipeline, financial management, and role-based real-time dashboards.
- **Responsibilities:**
 1. Complete lead-to-enrollment pipeline: capture leads, schedule follow-up calls, track conversion, and register students into courses.
 2. Student Care module: waiting lists, course-instance scheduling, teacher assignment, and attendance tracking.
 3. Financial engine: payment plans, installments with admin approval, refunds, postponements, offers, packages, and per-branch revenue reporting.
 4. Role-based dashboards for Admins, Customer Service, Student Care, and Teachers — each seeing only what belongs to their branch.
 5. Real-time notifications routed to the right branch's staff only.
- **Skills:** Full multi-branch data isolation implemented with a custom Laravel global-scope trait every model, query, dashboard count, and notification is automatically scoped to the acting user's branch, with new records auto-stamped to the correct branch on creation. The result: strict organizational separation without forking the app per country.

Sattam Marketing Store — ziadhfi.com | Full Stack Developer

Jan 2026

- **Tech Stack:** Wordpress, Woocommerce, PHP, APIs, VanillaJS
- **Description:** A complete e-commerce platform for selling social media services such as followers, views, and engagements across Instagram, Snapchat, TikTok, and Facebook. Built with WordPress/WooCommerce and enhanced with custom features that go far beyond the capabilities of standard e-commerce solutions.
- **Responsibilities:** The platform includes passwordless login using OTP verification via email and WhatsApp, a fully bilingual Arabic/English interface, and multi-currency pricing that dynamically converts add-on prices based on the visitor's selected currency — all delivered through a seamless user experience backed by precise custom development.

Foodgram — Social Food Marketplace | Backend Developer

Jan 2026

- **Tech Stack:** NestJS · TypeScript · PostgreSQL · Sequelize · Firebase · AWS S3
- **Description:** A social-commerce platform built for food lovers and home chefs, combining the experience of a social media platform with a complete food ordering ecosystem. Foodgram allows home cooks to build their own profiles, showcase dishes through posts, connect with nearby customers, communicate directly through chat, and manage incoming orders — while customers can discover local food, follow their favorite cooks, interact with their content, and place orders seamlessly.
- **Responsibilities:** As a Freelance Backend Developer, I contributed to building the backend architecture and core APIs powering the platform, including authentication, user profiles, social interactions, food and post management, orders, real-time communication, notifications, and cloud-based media handling. The platform was developed with scalability and a smooth social-commerce experience in mind, connecting the social aspect of food discovery with the operational side of managing orders and customers.

Hotel Management System | Full Stack Developer

March 2025

- **Tech Stack:** Vue.js, Laravel, MySQL, JavaScript, HTML, CSS
- **Description:** Developed a web-based system for hotel management with role-based access for Admin, Manager, Receptionist, and Client. Managed client approval, room reservations, and automated email notifications.
- **Responsibilities:** Built the client management system, integrated APIs, designed dynamic interfaces for client approvals and reservations, and implemented email automation for notifications.
- **Skills:** Full-stack development, API integration, email automation, database management, authentication, collaboration.

Blog API - RESTful Blogging Platform | Backend Developer

February 2025

- **Tech Stack:** Express.js, Mongoose, JWT, Joi, bcrypt, MongoDB
- **Description:** Developed a Blog API with full CRUD operations, user authentication, role-based access, and comment management.
- **Responsibilities:** Built RESTful APIs, implemented secure user authentication (JWT), role-based access, and pagination. Enhanced security with bcrypt for password hashing and data validation with Joi.
- **Skills:** Node.js, API design, MongoDB, authentication (JWT), data validation, middleware integration.

Medical Equipment needs assessment system for Healthcare Organizations

August 2020

- **Tech Stack:** HTML, CSS, Bootstrap, Javascript, Brackets, Python, Django, Pycharm.
- **Description:** Develop a software system that facilitates comprehensive and data-driven needs assessments for medical equipment in healthcare orgs. The system will help organizations identify, prioritize, and plan for equipment acquisition and management.
- **Responsibilities:** Build a robust and user-friendly medical equipment needs assessment system and ensuring the application meets the needs of healthcare organizations.

CommuniTI - Event Management Website | Frontend Developer

July 2025

- **Tech Stack:** Express.js, mySQL, Laravel, PHP, React.js, React Router, Tailwind, Axios, JWT
- **Description:** Developed the frontend of a multi-role event management platform enabling students and companies to interact through job fairs, events, and profile management.
- **Responsibilities:** Developed responsive, role-based UI components using React and Tailwind CSS. Integrated with RESTful APIs via Axios to fetch and manage dynamic data. Implemented protected routing and state management for a seamless user experience.
- **Skills:** React.js, SPA architecture, Tailwind CSS, API integration, routing & navigation

SKILLS

- **Programming Languages:** Python, Java, JavaScript, PHP, C#, Ruby, SQL
- **Frontend Development:** Angular, React.js, Vue.js, HTML5, CSS3, CSS Frameworks
- **Backend Development:** Node.js, Express.js, Nest.js, Next.js, PHP, Laravel Frameworks
- **Databases:** MySQL, MongoDB, PostgreSQL DB
- **DevOps & Cloud:** Bash Scripting, Red Hat System Administration, Apache Web Server
- **APIs & Web Services:** RESTful APIs, GraphQL
- **Version Control & Tools:** Git, GitHub
- **Other Technologies:** Design Patterns, Agile Methodologies, OOP, Data Structures & Algorithms