Mahmoud Mohamed Mahmoud
Software Engineer

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EDUCATION

Master's Degree in Computer Science, Assiut University 2025 – present | Assiut, Egypt

Full Stack Web Development using MEARN 4 months Diploma, ITI 12/2024 – 05/2025 | Qena, Egypt

Bachelor of Computers and Information, South Valley University 2020 – 2024 | Qena, Egypt
Computer Science Department
Cumulative GPA: 3.06/4.0 (B+)

PROFESSIONAL EXPERIENCES

External Instructor, Information Technology Institute (ITI) 07/2025 – Present | Qena, Egypt
Delivering technical lectures and hands-on training in the MEARN Stack (MongoDB, Express, Angular, Node.js) across multiple ITI tracks. Focused on practical applications, real-world projects, and mentoring junior developers.

Coach for Freelancing in Software Development, EYouth 10/2024 – 04/2025
Project-Based Role | Digital Egypt Pioneers Initiative (DEPI)
Guided participants in freelancing fundamentals, portfolio building, and client communication to prepare them for the global freelance market in software development.

Freelancing Project, Mostaql ⧉ 11/2024 – 01/2025
Built a full featured web app for businesses to manage bookings, services, employees, and availability.
Tech Stack: Angular, .NET, MS SQL Server

Freelancing Project, Mostaql ⧉ 09/2024
Transformed a mobile app idea into a Software Requirements Specification (SRS) document and designed intuitive UX wireframes to guide development.

PROFESSIONAL TRAININGS

Front End Development Summer Training, ITI ⧉ 08/2023 – 09/2023
Covered: HTML5, CSS3, Responsive Web Design, Bootstrap 5, JavaScript (ES6+), TypeScript, Angular Fundamentals

HCIA-AI Certificate, HUAWEI ⧉ 11/2022
Covered: Introduction to AI, Machine Learning, Deep Learning, Neural Networks, Common ML Algorithms

Artificial Intelligence Summer Training, NTI ⧉ 08/2021 – 09/2021
Coverd: AI & Machine Learning Fundamentals, Deep Learning, Neural Networks, Python, Communication Skills, Interview Skills, Presentation Skills, Leadership, Soft Skills, Problem Solving, Intro to Information Security & Privacy

SKILLS

Core Concepts: Object-Oriented Programming (OOP), Data Structures, Algorithms, Design Patterns

Programming Languages: C, C++, JavaScript, TypeScript, Python

Software Engineering: SDLC, UML & System Modeling (Use Case, Sequence, Activity, DFD, Context, Flowchart)

Frontend Development: HTML5, CSS3, Responsive Design, Bootstrap 5, SASS, JavaScript (ES6+), TypeScript, Angular

Backend Development: Node Js, Express Js

Database: MS SQL Server, MongoDB

UI/UX Design: Figma

Unit Testing: Jasmine

Version Control & Tools: Git, GitHub, Postman

PROJECTS

University Campus Housing Management System,   2023 – 2024
Graduation Project
- A system for managing student housing, including room selection, availability tracking, violation management, infrastructure oversight, reporting, and administrative settings.
- **Role:** UI/UX Designer & Frontend Developer
- **Tech Stack:** Figma, HTML5, CSS3, Bootstrap 5, TypeScript, Angular, LINQ, Entity Framework, ASP.NET Core, Web API, SQL Server
- **Live Demo** ⧉ , **Video** ⧉

Youtube Playlist Downloader Website   07/2024
- A web tool allowing users to input a playlist URL, fetch its content, and download all videos in a compressed file.
- **Tech Stack:** HTML, CSS, Bootstrap 5, JavaScript, Python, Flask
- **Github Link** ⧉

Medium Clone (Articles Website)   10/2023
- A simplified clone of Medium where users can register, create,edit and delete articles, follow writers, and view profiles.
- **Role:** Frontend Developer
- **Tech Stack:** HTML, CSS3, Bootstrap 5, TypeScript, Angular, C#, ASP.NET Core, REST API, Entity Framework
- **Live Demo** ⧉ , **Github Link** ⧉

E-Commerce Wesbiste   09/2023
- A simple e-commerce platform to display products, filter by categories, and view product details.
- **Tech Stack:** HTML5, CSS3, Bootstrap 5, TypeScript, Angular
- **Github Link** ⧉

Online Food Orders Mobile App (UI/UX Design)   08/2023
- Designed a mobile app UI for online food ordering: includes authentication, profile, payment management, meals display, and ordering process.
- **Tech Stack:** Figma, UI/UX Principles
- **Design Link** ⧉

Online Learning Management System (LMS)   06/2023
- A Platform is created for teaching staff to view his courses and students enrolled in courses, create and delete materials. and allow student to view his courses, view and download material, view teaching staff and students for courses. and allow admin to manage courses, teaching staff and students on system.
- **Tech Stack:** SRS, Figma, HTML, CSS, JS, Bootstrap, ASP.Net Core 6
- **Github Link** ⧉

Personality Detection Model   2022
- A web based personality test that uses machine learning to predict user personality based on answers to custom scaled questions.
- **Tech Stack:** HTML, CSS, JavaScript, Python, Flask, ML Algorithms, Data Analysis
- **Github Link** ⧉

VOLUNTEER EXPERIENCES

Head of HR Committee in ACPC SVU Community   11/2022 – 02/2023

Head of IT sub Committee in HR Committee in the YLY Initiative   10/2022 – 02/2023