

Mohamed Sameh Abd El Zaher

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Summary

Combining business management with strong technical skills in web development and database management. Experienced in leading web application projects. Currently expanding my expertise in full-stack development. Seeking a role that involves contributing to innovative tech projects and creating a meaningful impact.

Education

Modern University for Technology & Information, Cairo, Egypt

BSc. , Honors in Management Information System (MIS), GPA 3.45 [Link](#)

July 2024

Harvard University (Online)

CS50 Introduction to Computer Science and Art of Programming [Link](#)

2022 - 2023

Experiences

React Frontend Web Developer Intern - Digital Egypt Pioneers Initiative (DEPI)

October 2024 – May 2025

Specialized in React development with strong skills in HTML, CSS, JavaScript, and Node.js. Completed a capstone project integrating React and Node.js to build a real-world web application. Gained experience in Git, GitHub, TypeScript, and functional documentation.

Projects

AI Chat Web App – Real-Time Chatbot Using Django and Gemini AI [Link to live hosting](#)

- Developed a live AI chatbot platform with a clean UI and dynamic response rendering.
- Built using Django (backend), HTML/CSS/JavaScript (frontend), and Gemini AI API for intelligent replies.
- Ensured secure POST-only message handling and smooth user experience.

Little Lemon API – Restaurant Management System (Django REST API) [GitHub link](#)

- Developed a full-featured RESTful API for restaurant operations, including user roles, menu management, cart handling, and order processing.
- Implemented token-based authentication with Djoser and structured role-based access (Admin, Manager, Delivery Crew, Customer).
- Implemented using Django, Django REST Framework, and SQLite; tested via Insomnia and Postman.

Tickets Booking Web App – Full Stack Booking System [GitHub link](#)

- Built a web-based ticket booking platform with real-time availability and confirmation system.
- Implemented using Flask (backend), React.js (frontend), and SQLite for data storage.

Movie Recommendations App [GitHub link](#)

- Developed a personalized movie recommendation app using content filtering logic.
- Implemented using Python, Flask, API, React.js, and Tailwind CSS with SQLite and GitHub integration Python

University Graduation Project – MediCarePlus (Hospital Services Web App) [Link to live hosting](#)

- Led the creation of a medical services app for my final year project. The app focuses on patient management, scheduling, and staff communication in a hospital setting.
- Appointment scheduling and secure communication for healthcare staff.
- Access to detailed patient records and hospital performance reports.
- Implemented using Python, SQL, SQLite, HTML, CSS, JavaScript, Flask , Flask-Session, Jinja2, Werkzeug

CS50X Final Project – Hospital System Web Application [GitHub Link](#)

- Developed a hospital room reservation system for Harvard’s CS50X final project.
- The app simulates real-world hospital operations, including patient registration, room booking, and role-based access management.
- Key features include multi-role functionality (Admin, Reception Manager, Receptionist, Reporter), real-time room management, and detailed reporting.
- Implemented using Python, SQL, SQLite, HTML, CSS, Flask , Flask-Session, Jinja2, Werkzeug

CS50 finance [GitHub Link](#)

- Developed a finance management app simulating a stock trading platform for the CS50 course.
- Users can register, log in, view quotes, trade shares, and track transactions.
- Added features: password change, cash deposits, detailed history, and user settings.
- Implemented using Python, SQL, SQLite, HTML, CSS, Flask

Skills

Programming Languages: C • C++ • HTML • CSS • Python • JavaScript • SQL

Frameworks: Flask • Django • Bootstrap • React

Tools: CMD • Git • GitHub • GitHub Desktop • ChatGPT • MongoDB Compass • SQL Server 2022

API Design & Development: Apigee API Platform • Postman • Insomnia • RESTful APIs

Cloud Platforms: Google Cloud (API Management)

Databases: SQLite • MongoDB • MySQL • Microsoft SQL Server

Soft Skills: Leadership • Communication • Adaptability • Collaboration • Attention to Detail • Time Management

Key Strengths

Full-Stack Python Developer | Backend Developer (Django, Flask) | React Front-End Developer | Aspiring Cybersecurity Engineering

Certificates

Database Design and Basic SQL in PostgreSQL Coursera & University of Michigan Link	Aug 2025
APIS Coursera & META Link	May 2025
EF SET English Certificate 65/100 (C1 Advanced) EF SET Link	May 2025

SmallTalk English Speaking Level Test	SmallTalk English Speaking Level Test (C1 Advanced)	
SmallTalk2Me	Link	May 2025
Introduction to Cyber Security Learning Path		
TryHackMe	Link	Dec 2024
Pre-Security Learning Path		
TryHackMe	Link	Dec 2024
Agile Project Management		
HP LIFE (HP Foundation)	Link	Oct 2024
Introduction to Cybersecurity Awareness		
HP LIFE (HP Foundation)	Link	Oct 2024
API Design and Fundamentals of Google Cloud's Apigee API Platform		
Coursera & Google Cloud	Link	Oct 2024
API Beginner Learning Path		
Postman	Link	Oct 2024
Database Fundamentals		
Information Technology Institute (ITI)	Link	Sep 2024
CS50 Introduction to Computer Science and Art of Programming (Verified Certificate)		
Harvard University	Link	Oct 2023
Essentials of ChatGPT		
Almdrasa	link	Mar 2023
HTML & CSS		
Information Technology Institute (ITI)	Link	Feb 2023
Web Development Challenger Track		
Udacity & FWD	Link	Aug 2022
Python		
Amit	Link	Feb 2021

Extra-curricular activity

Volunteer Work - Ministry of Telecommunication Graduation Party

Cairo University | December 2024

- Guided graduates and coordinated seating arrangements for the ceremony.
- Organized and distributed certificates for ministries' initiatives graduates.
- Contributed to the smooth execution of the event, ensuring a memorable experience for attendees.

Languages

- **English:** (Fluent, C1)
- **French:** (Intermediate, A2)