OSAMA SADEK

AI Maker & AI Automation Engineer

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Portfolio: osama-sadek-portfolio.vercel.app | Open to Remote Worldwide

PROFESSIONAL SUMMARY

AI Maker and Automation Architect with +4 years of domain experience. I specialize in building production-ready web, mobile, and automation systems by orchestrating advanced AI tools (ChatGPT, Claude, Gemini, Cursor) rather than manual coding. I focus on system architecture, prompt engineering, and business logic to deliver full-stack solutions quickly and efficiently. I do not write boilerplate code manually; instead, I direct AI models to generate, debug, and deploy scalable applications.

CORE SKILLS

- **AI & LLMs:** ChatGPT, Claude, Gemini, Prompt Engineering, AI Agents, AI Knowledge Retrieval (RAG).
- **Architecture & Logic:** Full-Stack Web/Mobile Architecture, Database Design, API Integration.
- **Data & Workflow:** SQL Concepts (PostgreSQL, Microsoft SQL), Git & GitHub (Version Control), AI-Assisted Debugging.

PROFESSIONAL EXPERIENCE

AI Maker & Automation Architect (Freelance / Remote) — 2021 – Present

- Architected and built 8+ production-grade applications by directing AI models to write code, design APIs, and create responsive UIs.
- Leveraged AI tools to implement RAG architectures, reducing manual document analysis times by 70%.
- Managed end-to-end project delivery by writing precise prompts to generate, test, and debug full-stack solutions.

FEATURED PROJECTS (Built via AI Orchestration)

Smart-IP Auditor Engine – AI Patent Analysis Platform

- Directed AI to build a legal-tech platform using RAG concepts for semantic similarity, cutting review duration by 70%.

Spotter AI – Logistics Route Calculator

- Orchestrated AI to develop an enterprise route planning engine, improving freight calculation efficiency by 60%.

Electricity Theft Inspection App – Mobile Solution

- Used AI to build a mobile app enabling offline data recording, cutting incident documentation time from 2 hours to 15 minutes.

Drawing – Course - Platform

- An interactive educational platform & native recording studio for Engineering Drawing courses, built with Python (Flask) & WebRTC.

Ride – Hailing – Platform

- Full-stack ride-hailing platform for riders, drivers, and admins, built with NestJS, React, PostgreSQL, and Redis.

Asyut – Maintenance – System - Dashboard

- comprehensive web app for managing and tracking monthly periodic maintenance works for Assiut South Sector engineering departments with interactive dashboard, PDF reports, and AI assistant.

Fuel – Planner – Task

- This project is a coding challenge solution for a Fuel Stop Planner. It calculates the optimal fuel stops and provides the cheapest fuel stations along a route.

Coommit – Echo – AI - Canvas

- An AI-powered real-time collaborative workspace featuring an infinite canvas, live audio processing with Whisper, WebSockets synchronization, and automated layout generation via OpenAI GPT-4o.

DOMAIN EXPERIENCE

Middle Egypt Electricity Distribution Company **2007 – 2026**

Senior Infrastructure & Digital Transformation Manager

- Led technical teams of 100+ personnel overseeing grid operations and digital workflow modernizations.

EDUCATION & CERTIFICATIONS

- B.Sc. in Electrical Engineering (Power & Machines), Assiut University (2005)
- Back-End AI Engineering Intern – FlyRank AI (Accepted 2026)
- Gorilla Problem Solving Assessment – 97th Percentile (2025)

LANGUAGES

- Arabic (Native) | English (Professional Working Proficiency)