MUSTAFA MARZOUK

SOFTWARE ENGINEER ⬤ GIZA, EGYPT ☎ +201555533581

DETAILS

Giza
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LINKS

Google Scholar

GitHub

LinkedIn

SKILLS

Python, Django, Flask

pytorch, Tensorflow

Numpy, pandas, matplotlib

Typescript, SvelteKit, React, TailwindCSS, NextJS

Excel, SQL, Microsoft PowerBI

ML, DL, Prompt Engineering

Docker, Nginx, AWS

PROFILE

I'm a software engineer who enjoys solving problems and working with others. I like learning by doing, picking up new skills, and improving through real hands-on experience. I'm excited to grow with a team and learn from people who've been there before while building useful, practical solutions along the way.

EMPLOYMENT HISTORY

Software Engineer at Microdoc, Dublin (Working remotely from Egypt)
July 2024 — July 2025

- Developed and maintained full-stack web applications using SvelteKit and Django, optimizing for concurrent user access and efficient data/audio processing.
- Integrated Stripe for tiered pricing models and streamlined subscription management, enhancing user experience.
- Dockerized backend architecture with Docker Compose on AWS EC2, implementing blue-green deployment via Nginx for uninterrupted service.
- Improved application performance by reducing polling requests by 90% on critical pages, significantly enhancing load times.
- Established CI/CD pipelines with GitHub Actions, ensuring rigorous code quality through automated linting and testing.
- Worked closely with clients to gather requirements, provide regular updates, and deliver solutions tailored to their needs.

Python Manim Developer at Upwork
February 2023 — Present

- Collaborated with clients on data visualization and educational animation.
- Created custom animations with the Python Manim library for a wide range of clients, including professors, universities, and learning platforms, earning Top Rated status.

Junior Web Developer (JS, Astro, WordPress, Python) at Innovies Club, Cairo, Egypt
May 2022 — December 2023

- Developed WordPress sites and landing pages using ACF, BeRocket, and Astro framework.
- Collaborated with cross-functional teams to design and implement user-friendly features.
- Conducted code reviews to ensure high-quality standards and best practices.
- Improved site performance by optimizing Core Web Vitals.

Data Analyst Internship at National Telecommunications Regulatory Authority (NTRA) of Egypt, Cairo
July 2023 — August 2023

- Analyzed market share distribution of major operators (WE, Vodafone, Etisalat, Orange) across Egyptian provinces and cities.
- Explored customer complaints data for the first half of 2023 to identify areas of concern, particularly related to latency.
- Developed an understanding of the philosophy behind extracting valuable insights from data.
- Learned presentation skills, DAX measures, M-language for data transformations, establishing table relationships, and data cleaning.

Frontend Internship at Information and Decision Support Center IDSC, Cairo
August 2022 — September 2022

- Learned React, Redux, Tailwind
- Engaged in continuous learning to explore new frameworks and technologies relevant to frontend web development.
- Developed a responsive job finding frontend application built with React and Tailwind CSS.

EDUCATION

October University for Modern Sciences (MSA) - University of Greenwich
2020 — 2024

GPA: 3.75 (with Highest Honors)

- B.Sc. in Computer Science (AI Specialization)
- Foundation in programming, data structures, advanced databases, and operating systems
- Experience in web programming, design patterns, and medium scaled OOP projects
- Hands on projects on AI, machine learning, deep learning, NLP, and Computer Vision
- Authored 4 AI-related research papers in NLP, Computer Vision, HCI, and gained experience in academic writing and critical paper review
- Applied skills through hands-on projects and collaborations with faculty & industry partners
- Graduation Project: Designed a computer vision–based framework to automatically monitor sewing line workers. Integrated ensemble deep learning and spatio-temporal video analysis for accurate measurement of employee added value.

Dar El Tarbiah - IGCSE Schools
2017 — 2020

Grade: A

Completed the International General Certificate of Secondary Education (IGCSE), an internationally recognized qualification. Studied the core 8 O-Level subjects along with Computer Science and ICT as additional subjects, and pursued Advanced Subsidiary (AS) Mathematics. Built a strong foundation in analytical thinking, problem-solving, and technical skills through a rigorous, exam-based curriculum.

CERTIFICATES

Azure AI (AI-900), Microsoft Azure
December 2021

Azure Database (DP-900), Microsoft Azure
June 2022