

Mahmoud Mohamed Mahmoud Ali Mahmoud

AI Developer | Computer Vision Engineer

Contact Information

Resident in Dubai, United Arab Emirates (Available also in Abu Dhabi)

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Professional Summary

Dynamic AI Developer and Computer Vision Specialist with 3+ years of experience in AI solutions for medical diagnostics and sports technologies as long as my bachelor time. Expertise in deep learning, embedded systems, and real-time image processing, bridging academic research with industry applications.

Professional Experience

AI engineer & freelance developer, (self-employed online) (July 2024, Present):

- Working online for a variety of AI projects as a freelance and service-based AI projects.
- Worked for many types of projects including Computer Vision, NLP and LLM chatbots integration.
- Worked for software engineering projects with Flask in python.

Research and freelancing Team founder, at self-employed Medical AI Research Team (Sep 2024)

- Leading a remote team in developing AI-driven medical diagnostic solutions, enhancing treatment accuracy.
- Working for research papers like detection of lumbar spine deformities using deep learning models.

Software Engineer, at Khater Sports, Egypt (2022 - 2023):

- Worked in software development for sports technology solutions, focusing on middleware systems for scoreboards.

- Worked for mobile app development to get provide end point system for a physical scoreboard.

AI Research Intern, at Nan-Yang Polytechnic (NYP), Singapore (Jul 2023)

- Designed a deep learning-based gait detection system achieving 84% accuracy.
- Used YOLO and Neural Networks in TensorFlow to deign sequential model architecture.

Programming Lecturer & Instructor, at IEEE BUE (2024)

- Taught dynamic programming and algorithm design to engineering students.

Technical Coordinator, IEEE BUE - SB (2020 - 2023)

- Organized technical workshops and led teams in national/international competitions.

Co-Founder & Technical Lead, MYM Smart Home Solutions (2020 - 2022)

- Started own startup for Smart Home solutions.
- Developed home automation systems integrating IoT technologies.

Skills

- | | |
|--------------------|------------------------|
| - Computer Vision | - LangChain |
| - NLP | - FastAPI |
| - Machine Learning | - NVIDIA Jetson |
| - Neural Networks | - AWS |
| - Python | - Google Cloud |
| - C# | - Communication skills |
| - TensorFlow | - Problem Solving |
| - PyTorch | - Teamwork |
| - OpenCV | - Planning |

Top Projects

Detection of Spine Deformities Using Deep Learning Models (2023 – 2025)

- Developed a three-phase system improving diagnostic accuracy using Python, TensorFlow, OpenCV and Vision Transformers (ViT)

Multi-Purpose Virtual Fitting Room (2023 – 2024)

- Built an AI-based virtual try-on system using SMPL-X, MediaPipe, YOLO, Open3D, and Blender API.

Work-out Chatbot assistant (2025)

- Developed a chatbot assistant for GYM and workout to handle user's workout, schedule it, tracking fitness data and generating reports,
- Integrated with hugging-face and openAI APIs.
- Using pre-trained models like GPT2 & Gemma-2-2b

Education

1- London South Bank University (LSBU) [2020 – 2024]:

- Bachelor of Engineering - Major in Computer Engineering
- First Class Honors (UK-Grading), Grade A (US-Grading)

2- British University in Egypt (BUE) [2019 – 2024]

Certifications

- Artificial Intelligence Training Program (Zewail City of Science and Technology) [2023]
- Building Deep Learning Models with TensorFlow (IBM) [2023]
- Introduction to Computer Vision & Image Processing (IBM) [2023]
- Generative AI Explained (NVIDIA) [2025]

Achievements

- Top 5 Research & Design projects at BUE Computer Engineering 2024
- Ranked 6th in UK degree at BUE
- Global top 500 at IEEEExtreme16.0
- 2nd place in software category at Intel ISEF Egypt 2018