

# Mohamed Samir Hassan, MSc, PhD R.

AI Project Manager | AI Solution Architect | Technical Supervisor

Specialist in AI Solutions, 3D, Web/Mobile Development, VR/AR, Metaverse, and Hologram Technologies

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## Contact Information

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## Summary

**Innovative AI Engineer, AI Solution Architect, and AI Project Manager** with over 12 years of experience delivering intelligent, scalable systems across AI, cloud, and immersive XR technologies. Currently serving as **Application Analyst & AI Lead** at **StaffDocs (USA)**, where I design and deploy large-scale healthcare data analysis and automation pipelines using Python, Azure, and LLM-based agents.

Previously led AI initiatives at **VEEM Solutions (Saudi Arabia)**, building multimodal platforms and compliance agents with LangChain, Azure OpenAI, Docker, and FastAPI. Proven track record in machine learning, data engineering, cloud deployment, and end-to-end product design. Certified by **Google, Microsoft, IBM, and the University of Virginia**, with a strong foundation in metaverse and XR technologies.

Experienced in leading cross-functional teams, initiating and managing projects using Agile methodologies, and integrating AI with cloud-native solutions to drive innovation.

I am currently pursuing a **PhD in AI at Helwan University**, focusing on the design and implementation of **MSHR++**, an intelligent self-improving router combining Small Language Models (SLMs) and Task-Ready Networks (TRNs) for low-resource multi-agent AI environments. Academic background includes a **Master's in 3D Mesh Compression and AI**, a **Postgraduate Diploma in Computer Science**, and a **bachelor's in information management systems**.

Open to international relocation and ready to lead high-impact projects at the forefront of emerging technologies.

## Experience

### Application Analyst & AI Lead

StaffDocs – United States (Remote).

July 2025 – Oct 2025

- Designed and deployed AI automation pipelines for provider prospect scoring, NPI-based matching, and compliance tracking using Python and Azure Functions.
- Conducted large-scale data analysis on national NPI datasets exceeding 10GB (millions of rows) with taxonomy classification and deduplication for psychiatry, anesthesiology, and hospitalist specialties.
- Led Zoho CRM → Microsoft 365 migration (Outlook, OneDrive, Intune) with automated synchronization and validation pipelines.
- Built forecasting systems for shift/scheduling data using Pandas and Azure ML Studio, exposed via FastAPI services
- Authored documentation, dashboards, and automated workflows to improve compliance accuracy and operations.

### Projects Manager & Solution Architect & Technical Supervisor

VEEM Solutions Company – Jeddah, Saudi Arabia

May 2024 – July 2025

- Spearheaded the design and deployment of AI-powered enterprise tools across creative, compliance, and 3D domains.
  - Vminds.ai: Built AI tools for image, video, and audio creation using HuggingFace, Gradio, and Azure. Oqail Agent: Integrated models into a unified multimodal agent supporting text, image, and speech with LangChain and Prompt Engineering.
  - GlassHub (PoC): Developed a RAG-based AI compliance agent using LangChain, Azure OpenAI, and Qwen VL7B.
  - Dualize.ai: Built an AI studio (Image, Video, Audio, Content) with 15+ tools (Face Swap, LipSync, Cartoonization, Relighting) using FastAPI and Docker.
  - PixiCamel: Engineered AI-based 3D generation tools for creative industries.
  - Fahy Game: Created an AI driven narrative simulation; role: AI Solutions Architect & Project Manager.
  - Shrwd.ai: Created an AI website that can analyze any other website and compare it with the competitive website and social media by AI model using RAG systems and multi-Agents.

### Lead Solutions Architect & Team Leader.

AVR Labs Company – Dubai, UAE

April 2024 – Nov 2024

- Orchestrated development of AR/VR solutions tailored for education and entertainment sectors.

- Oversaw multi-team collaboration to create engaging, data-driven immersive environments.
- Streamlined technical processes and ensured compliance with cutting-edge industry standards.
- Mentored junior architects, fostering innovation and professional growth.

### **Lead 3D Metaverse Expert**

**VVERSE Company for Metaverse** – Dubai, UAE

*Nov 2023 – April 2024*

- Engineered Metaverse-ready solutions optimizing 3D model workflows for real-time applications.
- Automated scripting for 3D tools (Blender, 3D Studio Max), significantly reducing design lead time.
- Delivered innovative platforms for government-led Metaverse projects, enhancing digital transformation.

### **Technical Director**

**MOJOMOTO** – Copenhagen, Denmark

*Sep 2022 – Nov 2023*

- Directed AR/NFT projects focusing on digital fashion and lifestyle products.
- Implemented cross-platform AR solutions integrating AI-enhanced user interactivity.
- Developed and deployed decentralized applications aligning with global market trends.

### **Lead 3D artist**

**Simservices GmbH** – Duren, Germany

*March 2021 – September 2022*

- Designed and developed immersive VR flight simulators using Unreal Engine and advanced 3D modeling tools.
- Created realistic, high-performance 3D assets and environments optimized for simulation accuracy.
- Collaborated with international teams to deliver compliant, cutting-edge VR experiences adhering to European technical benchmarks.

### **Founder & CEO**

**TICONERS** – Cairo, Egypt

*April 2018 – October 2021*

- Established a pioneering company specializing in AI, VR, AR, and 3D game development.
- Led the creation of educational AR mobile games, VR apps, and Hologram-based learning tools for children.

- Successfully managed projects from concept to delivery, building a reputation for innovative, high-quality solutions.
- Company ceased operations during the COVID-19 pandemic.

### **Senior 3D Artist**

**Al Hilal Saudi Football Club** – Riyadh, Saudi Arabia

*April 2016 – March 2018*

- Designed and created realistic 3D low-poly Snapchat filters, enhancing fan engagement and brand visibility.
- Delivered innovative visual content tailored to the club's promotional needs.

### **Senior 3D Artist**

**EVAAZ** – Egypt & Saudi Arabia

*September 2014 – January 2018*

- Developed realistic low-poly 3D models for Unity-based games, AR, and VR applications.
- Contributed to diverse projects including architectural visualization, educational tools, and advertising campaigns.
- Collaborated with developers and designers to deliver seamless, interactive experiences.

### **Certified Instructor & 3D Artist**

**White House Academy** – Cairo, Egypt

*October 2013 – March 2017*

- Provided professional training in 3D Studio Max and V-Ray to aspiring 3D artists.
- Created photorealistic 3D models, animations, and rendered scenes for academic and commercial purposes.

### **3D Architecture Designer**

**CAMPASH** – Cairo, Egypt

*December 2013 – May 2014*

- Designed and rendered high-quality 3D architectural models and visualizations.
- Delivered photorealistic images and animations using 3D Studio Max and V-Ray.

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### **Education**

**PhD Researcher in AI Immersive Solutions**

Faculty of Computers and Artificial Intelligence, Helwan University

*September 2024 – Present*

### Master's Degree in 3D Mesh Compression and AI

Faculty of Computers and Artificial Intelligence, Helwan University  
September 2016 – January 2024

### Postgraduate Diploma in Computer Science

Faculty of Computers and Information Technology, Menoufia University  
September 2013 – July 2015

### Bachelor's degree in management information systems (MIS)

The Egyptian Academy of Computers and Information Systems  
September 2009 – June 2013

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## Certifications

- [Google AI Essentials](#) — Google (Issued Jan 2025)  
*Credential ID: AI8PI1SXGYA1*
- [Initiating and Planning Projects](#) — University of California, Irvine (Issued Jan 2025)  
*Credential ID: OKKNEXZBUQCT*
- [Agile Project Management](#) — Google (Issued Jan 2024)  
*Credential ID: ZV9XD0BW3CUE*
- [Product Management: An Introduction](#) — IBM (Issued Jan 2024)  
*Credential ID: MBV90QZUEACH*
- [Product Management: Building AI-Powered Products](#) — SkillUp EdTech (Issued Jan 2024)  
*Credential ID: UEN4URCF03D6*
- [Project Management Fundamentals](#) — Microsoft (Issued Jan 2024)  
*Credential ID: MODCDD1VOFCL*
- PMP® Certification (In Progress) — Project Management Institute (PMI)
- [Data Science and AI for Healthcare](#) — NASBA (Jun 2025)
- [Become an AI-Powered People Manager](#) — LinkedIn Learning (May 2025)
- [Microsoft Azure AI Essentials: Workloads and Machine Learning on Azure](#) — Microsoft (May 2025)
- [Vibe Coding with Cursor AI](#) — Cursor (May 2025)
- [Agentic AI and AI Agents: A Primer for Leaders](#) — Vanderbilt University (Mar 2025)
- [Agile Meets Design Thinking](#) — University of Virginia (Feb 2025)
- [Digital Product Management: Modern Fundamentals](#) — University of Virginia, Darden (Feb 2025)
- [Digital Product Management Specialization](#) — University of Virginia (Jan 2025)
- [What is the Metaverse?](#) — Meta (Jan 2025)
- [Healthcare Organizations and the Health System \(USA\)](#) — Rutgers University (Jul 2025)
- [The Art of Persuasion](#) — Alfaisal University | KLD (Jul 2025)
- [Getting Started with Zoho CRM for Sales Reps](#) — Zoho Corporation (Sep 2025)
- [Fundamentals of Quantitative Modeling](#) — University of Pennsylvania (2024)  
*Credential ID: IXCE3CNDBCYE*
- Certificate of Contribution — French University of Egypt

## Technical Skills & Core Competencies

### Programming & Scripting

- **Languages:** Python, C#, JavaScript, TypeScript, Dart, SQL, MATLAB
- Strong proficiency in developing scalable AI, web, mobile, and XR applications.

### Cloud & Infrastructure

- **Platforms:** Azure ML Studio, Azure AI Foundry, Azure Functions, Container Apps, Azure Container Registry (ACR), Virtual Machines (VMs), Salad Cloud
- **CI/CD & DevOps:** Git, GitHub Actions, Docker, Docker Hub, Git-based workflows

### Deployment & APIs

- **Frameworks & Tools:** FastAPI, Streamlit, Gradio, GitHub Actions, Docker
- Skilled in building, deploying, and managing RESTful APIs and interactive ML interfaces.

### Machine Learning & AI

- **Libraries:** TensorFlow, Keras, Scikit-learn, Hugging Face Transformers, LangChain
- **Techniques:** Prompt Engineering, Retrieval-Augmented Generation (RAG), Agent-based systems
- Extensive experience in developing LLM-powered agents and AI pipelines.

### Computer Vision

- **Libraries & Tools:** OpenCV, YOLO
- Applied CV solutions across projects in healthcare, immersive tech, and real-time systems.

### Data Engineering & Automation

- **Tools:** Pandas, SQL, Excel/CSV Automation
- Efficient at data preprocessing, pipeline automation, and data transformation tasks.

### Project & Product Management

- **Frameworks:** Agile, Scrum
- **Skills:** Risk assessment, roadmap planning, stakeholder engagement, team mentorship
- Certified in project and product management with real-world leadership across international teams.

### Software & Tools

- **Productivity & Collaboration:** JIRA, Trello, Slack, Notion
- **Development & Design:** Unity, Unreal Engine

- Comprehensive experience with tools across AI, 3D, web, mobile, and immersive tech platforms.

#### **Business & Strategic Skills**

- **Expertise:** Cross-functional collaboration, budgeting, resource allocation, product lifecycle management
- Ability to align technical execution with business goals in fast-paced, innovation-driven environments.

#### **Global Mobility**

Fully **relocation-ready**, with a strong record of adapting to multicultural and international work environments.

#### **Awards & Achievements**

- National Programming Competition Winner, Egypt (1st Place)
  - ITAF Springer Conference Winner for "Optimized Compression of High-Polygon Models for VR Applications"
  - Recognized for "Best Innovative AI Solution," VEEM Solutions (2024)
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#### **Languages**

- **Arabic:** Native
  - **English:** Advanced (written and spoken)
  - **German:** Beginner
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#### **References**

Available upon request.