

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

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 analysis 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

EVA AZ – 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.

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

Certifications

- Google AI Essentials — Google (Issued Jan 2025)
Credential ID: AI8PI1SXGYA1
- Initiating and Planning Projects — University of California, Irvine (Issued Jan 2025)
Credential ID: 0KKNEXZBUQCT
- 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: UEN4URCFO3D6
- 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.