Ahmed Shehta Ahmed
Project Manager

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🌐 [Portfolio link / LinkedIn / GitHub]

Career Objective

Experienced Project Manager with a Computer Science background and 8+ years leading national-scale projects in Egypt and Saudi Arabia across GIS, AI, remote sensing, and digital transformation. Proven ability to manage cross-functional teams of software engineers and GIS analysts while delivering complex solutions under both Agile and Waterfall methodologies. Holds PMP certification, a Master's in GIS, an AI diploma, and multiple technical credentials. Seeking to drive innovation, improve operational efficiency, and deliver high-impact government and enterprise solutions.

Education

Master's Degree in GIS (Geographic Information Systems)
Zagazig University | Faculty of Computers and Information
10/2025 – Present

Master Diploma: Machine Learning & AI
AMIT | Association of Management & Information Technology
09/2023 – 03/2024 | **Grade: Excellent**

Diploma: Open Source Development Using Python
ITI | Information Technology Institute
03/2020 – 06/2020 | **Grade: Excellent**

Bachelor of Computer Science
Zagazig University | Faculty of Computers and Information
09/2013 – 09/2017 | **Grade: Excellent**

Work Experience

Senior Software Engineer - GeoMakani Company
Jeddah, Saudi Arabia | 04/2025 – Present

- Built a smart archiving system using OCR, LLMs, and large-scale data compression.
- Designed and optimized modular APIs (Django, Fast API, Flask).
- Built a professional geoportal and website with advanced GIS features.
- Deployed solutions on on-prem servers using Docker, Kubernetes, CI/CD.

Project Manager - Alqotr Company
Riyadh, Saudi Arabia | 01/2025 – 03/2025

- Directed digital transformation and GIS-based national projects.
- Ensured compliance with Saudi governmental standards and policies.
- Led a large team for digitization and field data collection.
- Aligned stakeholders with project scope and milestones.

Projects Manager - EDGE-Pro Company

New Cairo, Egypt | 01/2024 – 12/2024

- Oversaw four national-level projects across Egypt and Saudi Arabia, focusing on e-government and GIS systems.
- Monitor progress, track key performance indicators (KPIs), and provide status reports.
- Led a group of Project Managers in Egypt and coordinated remote project teams in Saudi Arabia.
- Supported change management activities related to new technologies, workflows, and evolving requirements.

Project Manager - EDGE-Pro Company

Cairo, Egypt | 01/2022 – 12/2023

- Delivered the National Spatial Data Infrastructure (NSDI) Portal for Egypt, ensuring full alignment with national standards and stakeholder requirements.
- Coordinated between government entities, consultants, and technical teams to ensure smooth communication and successful project execution
- Prepared comprehensive technical reports, documentation, and final handover packages
- Managed the project team using Agile methodology to improve productivity and delivery speed.
- Acted as Scrum Master for the software development team, facilitating sprints, managing backlogs, and ensuring continuous improvement.

IT Manager at NSDI Project - EDGE-Pro Company

Cairo, Egypt | 01/2022 – 12/2023

- Headed IT operations for NSDI Project under the Military Space Administration.
- Developed full-stack applications using Django.
- Managed inter-governmental system integrations with strict firewall policies with VPN Client to Client   Tunnels.

Systems Branch Officer (Reservist)- Air Force General Hospital

Cairo, Egypt | 11/2017 – 03/2020

- Led the Computer Science Department.
- Provided technical support and developed internal software solutions.
- Contributed to web and desktop development for hospital systems.

Certifications

- **Project Management Professional** – EDU PLUS (36 hours)
- **Master in Machine Learning & AI Diploma** – AMIT Learning (220 hours)
- **Full-Stack Development with Python** – ITI (Full 3 Months)
- **Full-Stack Development with PHP** – Senior Steps Center (180 hours)
- **Additional self-study certifications** - AI, GIS, and DevOps

Core Skills

- **Programming-Languages** : Python, JavaScript, C++, PHP, C#
- **Frameworks & Technologies** : TensorFlow, Scikit-learn, Fast API, Flask, Django, Odoo, ReactJS, Open Layers, Leaflet, Selenium
- **Databases**: PostgreSQL, MySQL, MS SQL Server, Oracle
- **Servers & DevOps**: Docker, Kubernetes, Linux, IIS, Apache, Git, CI/CD

- **GIS Tools**: ArcGIS Pro, ArcGIS Online, QGIS, ERDAS Apollo, GeoMedia, M.App Enterprise
- **Networking & Security:** FortiGate, Sophos, Draytek, System Administration
- **Other :** Pandas, Charts.js, Tkinter, .NET Core / MVC

Key Projects

AI-Driven Smart Achieve System
- Built an intelligent archiving system using OCR (Tesseract) to extract text, chunk it, and store it in PGVector for semantic and keyword search.
- Integrated LLM-based retrieval to enable conversational querying, smart search, and automated knowledge extraction.

AI System for Building Surface Type, Age, and Height Detection
- Developed an AI pipeline that predicts building surface type, construction age, and height using imagery, online data scraping, and machine-learning models.
- Automated dataset generation, feature extraction, and prediction workflows to support urban planning and remote sensing analytics.

National Spatial Data Infrastructure (NSDI) – Egypt
- Developed a unified Base map integrating data from various state agencies.
- Implemented a centralized geoportal to enhance decision-making and governance.

Spatial Changes Management – Saudi Real Estate Authority
- Developed a system for real-time tracking and management of spatial changes.
- Provided urban planners with insights to support sustainable development.

SAR Land Valuation – Land bridge Railway Project on Riyadh
- Collected data from multiple authorities and digitized land/building boundaries using high-resolution satellite
- Built GIS layers and predictive models to estimate land and building values accurately.

SGS Geoportal & Website Enhancement – Jeddah
- Optimized and refactored the backend database structure to improve performance and scalability.
- Developed automated ETL tools to synchronize data across the portal, databases, and external services.

Governance & Management of Egyptian Endowments Authority
- Designed a digital platform to oversee endowment properties and financial resources.
- Streamlined workflows to improve accountability and enhance financial reporting.

Optical Library Project – Agricultural Research Institute
- Built a digital library for agricultural research materials.
- Integrated advanced search and retrieval functionalities to aid researchers.

STS Project – Surveyor Tracking System
- Developed a real-time tracking system for surveyors performing field tasks.
- Integrated GPS-based tracking for vehicles and assets assigned to each task.

AI-Powered Object Detection and GIS Integration for Building Features
- Deep learning model using **YOLOv8**, **COCO**, and **SAM** to detect **windows and doors** in panoramic images.
- Enabled **automated urban asset mapping**, reducing manual work and supporting smart city planning.