

Islam Mohamed Gaber

PhD | PMP

Geospatial Analysis and Enterprise GIS

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Professional profile

CEO and Co-founder of TerraQant, an artificial intelligence solutions company. GIS consultant and geospatial researcher with experience in imagery analysis, enterprise GIS applications, spatial databases and technical training. Holds a PhD in Geography and the PMI PMP credential. Combines environmental research with practical GIS work across consulting, telecommunications and water-planning assignments.

Areas of contribution

Environmental image analysis: deep-learning applications to waste detection and analysis of satellite, aircraft and drone imagery.

Operational GIS: enterprise GIS applications, integrated spatial databases, data quality and user training.

Research-informed decision support: urban climate, atmospheric dust, precipitation and climate-sensitive spatial planning.

Selected experience

TerraQant | Chief Executive Officer and Co-founder. Artificial intelligence solutions.

ATSS water-planning GIS assignment for MEWA | commenced 21 January 2024. Senior Advanced Data Science Analyst, translated title. Contractor assignment to the ministry.

Midtown | GIS Consultant | 1 April 2023 to 1 September 2024. Contributed to imagery-based waste detection, GIS applications, Enterprise GIS, database quality and technical training.

Telecom Egypt | GIS Specialist | 14 September 2022 to 18 January 2024. Full-time GIS appointment.

Education and project management

PhD in Arts in Geography, Tanta University, awarded 31 December 2025. First-Class Honor.

Master of Arts in Geography, South Valley University, awarded 29 August 2022. Excellent.

PMI Project Management Professional, awarded 27 February 2026; certificate expiry 27 February 2029.

Selected assignments and capabilities

International consulting profile

Municipal GIS and environmental information

A CDM Smith reference dated 25 May 2021 records an 88-day GIS expert engagement associated with solid-waste work in Qena and Assiut. The described activities include a multilayer GIS database, reporting and training. The reference gives a project period extending from December 2019 to December 2021; it is not presented here as continuous employment.

GIS management and training

Al-Marasem: GIS and electronic subdivision management, 26 January to 31 December 2020. IVECOM: GIS training, 1 May 2017 to 1 May 2019.

Technical toolkit

ArcGIS, QGIS, Python, SQL and Google Earth Engine are listed in the professional CV. Supporting professional development includes the UC Davis GIS specialization, Esri imagery and cartography courses, SQL fundamentals and Python training. Project-specific proficiency and software versions should be discussed against the terms of reference.

Professional standing

Saudi Council of Engineers: Specialist in Geographic Information Systems. Certificate valid until 16 December 2026.

GACA Remote Pilot Certificate for the Open Category, issued 20 October 2026, with certificate expiry 20 October 2027.

Consulting interests

Spatial data governance and quality; environmental imagery workflows; operational GIS for water planning; research-to-practice collaboration in climate-risk monitoring.

Selected research

2026. Low-Intensity Precipitation Dominates Peninsular Spain (1961-2022). International Journal of Climatology 46(12), e70516. DOI: 10.1002/joc.70516.

2023. Climate Considerations in the Planning and Sustainability of Egyptian Cities. Egypt's Strategy to Meet the Sustainable Development Goals and Agenda 2030: Researchers' Contributions, pp. 207-238. DOI: 10.1007/978-3-031-10676-7_13.

Languages

Arabic: native. English: good spoken and written, self-assessed.