

SHAHBAZ ATTA AWAN

Senior AI & Data Architect

GIS & AI Data Architect · Hajj & Crowd Management · Smart City · Big Data

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20+ years designing large-scale mapping, routing, IoT and real-time spatial analytics platforms, now extending into AI-driven data products. Led three production Hajj crowd-management systems during three years on-site in Makkah, Saudi Arabia. Strong alignment with Saudi Vision 2030.

- 3 IEEE / IIT Publications
- 10+ Yrs On-Site KSA
- 3 Hajj Platforms Shipped
- Millions of Events / Day
- AVP-Level Leadership
- Vision 2030 Aligned

CORE TECHNICAL COMPETENCIES

Geospatial	PostGIS, pgRouting, GeoServer, MapBox, Graphhopper, OpenLayers
Big Data / AI	Spark, Flink, Kafka, NiFi, Databricks, Snowflake, Predictive ML
Languages	Java, Python, Scala, Angular, Docker/Kubernetes

PROFESSIONAL EXPERIENCE

- GIS Data Architect** Mar 2023 – Present
First City AI · Remote
– Own end-to-end big-data/GIS architecture for mapping, routing and location-intelligence products (Graphhopper, MapBox, GeoServer, Spark, NiFi).
- Assistant Vice President — Data Analytics** Aug 2022 – Mar 2023
Systems Limited
– Architected a predictive insurance-claim platform on Databricks + Delta Lake + Snowflake with Spark Streaming ingestion.
- Big Data Architect** Feb 2017 – Aug 2022
Mi-C3 International · Remote / EU
– Shipped Mi-Stream, a multi-tenant real-time geospatial streaming platform handling millions of events/day (PostGIS, pgRouting, Flink).
- Software Architect / Senior Researcher** Nov 2013 – Jan 2017
Wadi Makkah — Umm Al Qura University, Makkah, KSA
– Led architecture of Geo-Where, Masar IoT and Traffixity for Hajj crowd-density management; authored 3 IEEE/IIT publications.

EDUCATION & PUBLICATIONS

BCS — Allama Iqbal Open University · ML/Data Science coursework — edX, MIT
3 IEEE / IIT peer-reviewed publications on Hajj crowd analytics & smart transport (2016) — full list on request.

Open to relocate — GCC · Oman Property Investor Visa — in progress · English (fluent), Urdu (native), Arabic (basic)