AHMAR MAHMOOD

Solutions Architect | AI, Data & Automation | Remote Consulting

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PROFESSIONAL SUMMARY

Solutions architect with 14+ years designing and delivering data platforms, cloud infrastructure and AI-powered automation. A long-tenured remote consultant for a US hospitality company since 2017, leading technical strategy across data engineering, AI, cloud, contact-center technology and systems integration. Founder and CEO of Senho IT Solutions, with recent enterprise ERP-migration project work. Known for turning messy operational problems into reliable systems and for mentoring the teams that run them.

CORE COMPETENCIES

Architecture & Strategy: solution architecture, cloud-native design, microservices, integration strategy, IT roadmaps, digital transformation

Cloud & Infrastructure: Microsoft Azure (ADF, AKS, Entra ID / AD, Data Lake), AWS (S3, Lambda), Kubernetes, hybrid cloud, network infrastructure, Intune and Apple Business Manager (MDM)

Data Platform: Databricks, Delta Lake, Azure Data Factory, ETL/ELT, Dagster, PostgreSQL, data warehouse design, Power BI, DAX

Data Migration: ERP-to-ERP migration, medallion pipelines, crosswalks, gated QA, bulk API loads

AI & Automation: AI agents, LLM integration, n8n, RPA, NLP pipelines, helpdesk automation

Graph: Neo4j, GraphDB (RDF/SPARQL), TypeDB, knowledge graphs

Development: Python (FastAPI, Pandas), SQL / T-SQL, REST APIs, full-stack web, WordPress

Business Systems: Salesforce, Dynamics 365, NetSuite, Jira, Active Directory, IT service management

Leadership: cross-functional and remote team leadership, technical mentoring, vendor management, IT procurement, client consulting

PROFESSIONAL EXPERIENCE

Founder & CEO | **Senho IT Solutions (senho.co)** | Islamabad, Pakistan — Jun 2017 to Present

- Founded and lead an IT consultancy delivering AI automation, data engineering, cloud and software projects for clients in Pakistan, Canada, the UK and the US
- ERP data migrations to Infor M3 and NetSuite: lead the ETL, building layered bronze/silver/gold pipelines on PostgreSQL with crosswalks for items, customers and suppliers
- Orchestrate the migrations with Dagster, with automated QA gates and reconciliation, and load data through the Infor M3 and NetSuite APIs
- Use a graph database as an intermediate transformation layer to model and validate relationships between records before they are loaded
- Work with business leads on mappings, validation rules and error resolution, so every load is reconciled and auditable
- UK Banks: built an AI agent harness and security layer between AI agents and bank data, with per-agent and per-person authentication, default-deny policies, purpose limits, personal-data masking and a signed, tamper-evident audit trail in write-once storage
- Lead client engagements, technical delivery and partnerships

Solutions Architect | **Travel Resorts of America** | Remote 2017 to Present

- Lead data, AI and cloud architecture across departments and resort locations as the company's long-standing remote technology consultant
- Introduced ELT patterns with a Databricks lakehouse and guided the development team in building the enterprise data warehouse
- Designed the Power BI data-mart layer that replaced manual reporting with self-service analytics
- Deployed AI and autonomous-agent solutions for helpdesk and back-office operations
- Built knowledge-graph foundations to connect data across departments
- Oversee IT procurement, remote desktop management, device management and enterprise systems integration
- Earlier: started in QA and back-office automation (2017), then systems analysis (2018 to 2022) covering call-center operations, Active Directory, Azure and AWS, and resort network upgrades with intrusion detection

Database Engineer | **USAID Independent Monitoring Unit** | Pakistan Nov 2014 to Sep 2016

- Built a web-based project monitoring and reporting system that moved USAID project monitoring off paper and spreadsheets
- Field monitoring agents submitted site-visit reports, checklists and supporting evidence through validated web forms
- Role-based access for field monitors, reviewers and managers, with review and approval workflows before reports were released
- Designed the database for projects, sites, indicators and visits, with dashboards and automated reports for USAID headquarters in Washington, D.C.

Database Administrator | **UN World Food Programme (WFP), FATA project** | Pakistan Jun 2013 to Oct 2014

- Managed the database system for WFP's FATA programme: administration, backups, security and user access
- Designed secure databases and field data-collection workflows for beneficiary registration and food-distribution monitoring
- Kept data consistent across field teams with validation rules, reconciliation and regular data-quality checks
- Built analytical reporting for programme evaluation and decision-makers

Web Engineer | **Planning and Development, University of Peshawar** | Peshawar Jun 2012 to Mar 2013

- Built the university's Annual Report System for the Planning and Development department, used by 11 schools and 42 departments
- Departments entered their annual data through web forms, including lab and computer inventory and researchers' visits abroad; the system compiled the university's annual report and sent it to the print centre
- Revamped the Department of Islamiyat website, with Arabic translation
- Designed, built and maintained websites with a focus on usability and performance

KEY ACHIEVEMENTS

- **Enterprise data modernization:** led the move from legacy ETL to a Databricks ELT lakehouse with Power BI data marts
- **Call-center automation:** architected the lead-to-commission flow across sales and member-facing teams
- **AI call analytics:** built a tool that cut call analysis from hours to seconds
- **ERP migrations:** Infor M3 and NetSuite data migrations with layered pipelines, QA gates and reconciliation
- **UK Banks: AI agent harness & security layer:** per-agent authentication, default-deny policies, personal-data masking and a signed, tamper-evident audit trail between AI agents and bank data

EDUCATION

Master of Science (MS), Information Security | COMSATS University Islamabad 2016 to 2019
Bachelor of Science (Hons), Computer Science | University of Peshawar 2008 to 2012

RECOGNITION

Texpo Mentoring Talent Award, for mentoring, knowledge transfer and developing technical talent across teams

LANGUAGES

English (professional working proficiency)