Yazeed Hamad Alharthi

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Summary

AI engineer who builds governed agentic systems and measures them with evals. Team lead of the **1st-place** project in the Tuwaiq Academy × Google for Developers AI Champions Challenge 2026; completed SDAIA Academy's Advanced Agentic AI Systems Engineering program. Nine AI projects across healthcare, security, tourism and Arabic-first products. Arabic (native), English (professional).

Technical Profile

- **Agentic AI**: LangGraph, MCP, tool calling, human approval gates, prompt-injection defense, hybrid RAG
- **LLMs & evals**: Claude, OpenAI, Gemini, OpenRouter; eval design (pass@k, ablations, error analysis)
- **Vision & voice**: YOLOv10, OpenCV, MAVLink, Gemini Vision, OCR, Azure Speech
- **Backend & data**: Python, FastAPI, Node.js/Express, PostgreSQL/pgvector, PostGIS/Supabase, SQLite, HL7 FHIR
- **Frontend**: React, TypeScript · **Quality & DevOps**: pytest, Playwright, mypy, Docker, GitHub Actions, Cloud Run

Awards

1st Place, Smart Tourism Track, AI Champions Challenge 2026 Aug 2026
Tuwaiq Academy × Google for Developers. Team lead of NEX for **AURA** (github.com/4-u1/AURA), a Gemini-powered 3D digital-twin command center for At-Turaif, Diriyah, with crowd management and predictive heat-mapping.

Projects

MIJHAR, Evidence-Audit Agent · github.com/4-u1/mijhar-agent Oct 2026
SDAIA Academy capstone (author, lead engineer). Tool-using agent driving a governed LangGraph pipeline over MCP (3 tools) and FastAPI/SSE, with a signed human decision before any write. Against the baseline design: 33-task pipeline suite 73% → **100%** (indirect prompt injection 31% → 100%); 20-task harness suite 70% → **100%**.

VORQEN, Contextual-Memory AI Assistant · vorqen-pi.vercel.app 2026 – Present
Links a user's photos, files and chats over time; answers cite verbatim quotes. **804** passing tests, **635** eval cases in 6 suites, mypy strict; Claude and OpenAI models, Azure Speech for Arabic voice.

Ghost Data, Deletion-Audit & Remediation Agent · github.com/4-u1/GDDA-agent Oct 2026
HackerRank Orchestrate challenge. Agent that audits whether deleted data still persists and proposes remediation; **32/32** exact match on the sample set, 518 evaluation cases; Python, TypeScript, SQLite.

Falcon Eye, Autonomous Cyber-Physical Security & Drone Tracking · Kanz AI Training Hackathon Aug 2026
Live RTSP feeds through OpenCV and YOLOv10 threat detection; computes target coordinates and dispatches a drone over MAVLink, with real-time telemetry in a Streamlit dashboard.

Mujeaz, Healthcare Revenue Assurance & Prior Authorization · github.com/4-u1/Mujeaz Oct 2026 – Present
Six specialized agents for prior-authorization claims on NPHIES (HL7 FHIR R4); readiness score computed deterministically in code; FastAPI, PostgreSQL/pgvector, Gemini.

MIRAAH, Digital Asset Passport for Judicial Liquidation · Ibtikar Infath, team NEX Sep 2026
Working MVP: asset inspection workflow with AI-suggested defects confirmed by the inspector, and a SHA-256-sealed asset passport export.

ILM, Generative AI for Islamic Educational Content · Bathel AI Challenge · weilmai.ai.studio Oct 2026
AI solutions engineer on team NEX; Gemini 2.5 Flash with retrieval over sourced content.

Mirsad, AI Landslide-Risk Prediction · mirsad-rho.vercel.app Nov 2026
PAIC team project, GIS track (spatial cell grid); system scores 126,467 cells in SW Saudi Arabia, spatial ROC-AUC 0.74.

Leadership & Community

NEX, Co-founder & Team Lead · AURA (1st place), ILM, MIRAAH, VORQEN 2026 – Present
Programming & AI Club (PAIC), AI & Data Science Track Member Aug 2026 – Present
Shaguf, Ambassador · part-time, remote Jun 2023 – Present

Education

Taif University, Computer Engineering coursework 2023 – 2026
Bayswater College, Liverpool, UK, Intensive General English Jul – Sep 2024
Okaz Secondary School, Taif, Secondary School Certificate (Natural Sciences) · GPA 96.05% 2022

Certifications & Events

- **SDAIA Academy**: **Advanced Agentic AI Systems Engineering**, AI Engineering Track (Oct 2026, capstone: MIJHAR) · Developing Generative AI Solutions (Oct 2026) · Prompt Engineering & Responsible AI Use (Aug 2026) · AI Concepts & Advanced Applications (Apr 2026) · Fundamentals of AI (Apr 2026)
- **Anthropic**: Building with the Claude API (Jul 2026) · **Saudi Digital Academy**: AWS Certified AI Practitioner learning path (Sep 2026)
- **HackerRank**: SQL (Intermediate) (Apr 2026) · **Udacity**: AWS AI Practitioner Challenge (Apr 2026)
- **Security**: Introduction to Penetration Testing, Security Blue Team (Apr 2026) · Linux Forensics, TUSecurity Club (Apr 2026) · Tuwaiq Cybersecurity Challenge, participant (Aug 2026)
- **Other**: Drone Fundamentals, Satr (Oct 2026) · Computer Maintenance & Data Entry, 140 hours, Ministry of Education, **Certificate of Excellence** (2019)
- **Events**: Kanz AI Training Hackathon (Jul 2026) · Guinness World Records™ title participant, largest AI video lesson (Jul 2026) · ICAN 2026, SDAIA (Jan 2026) · 16 Tuwaiq Academy AI & security sessions (2025–26)