

Hadi Itani

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SUMMARY

I build small, complete cloud systems end to end — the infrastructure, the service in the middle, and the interface on top — and I write down how they actually work. Mostly Azure and Python: serverless, infrastructure as code, and the trade-offs in between. I care most about the parts that have to work — passwordless auth, a deploy that goes green, plumbing that clicks into place.

SELECTED PROJECT

The Observable System

2026 · live

An end-to-end cloud résumé on Azure, deployed to a custom domain — a small system that reports its own traffic.

- **Passwordless data access:** a Python Azure Function reaches Cosmos DB via a system-assigned managed identity with a data-plane RBAC role — no connection string or key in code, config, or pipeline.
- **Everything as code:** storage, Function, Cosmos, identity, and role assignments all declared in modular Bicep, parameterized for dev/prod.
- **CI/CD with OIDC:** two GitHub Actions pipelines authenticate to Azure with federated OIDC credentials — no stored Azure secrets. Unit tests gate every deploy; live smoke tests confirm the deployed system works end to end.
- **Edge & delivery:** chose Cloudflare over Azure Front Door for DNS, free TLS, and edge caching on a static site; resolved a host-header mismatch by registering the custom domain on the storage account.

Python · Azure Functions · Cosmos DB · Cloudflare · Bicep · GitHub Actions · OIDC

PROJECT

AI News Platform

2025

- A full-stack reading app with an automated article-ingestion pipeline, on-demand AI summaries, and authenticated, protected routes, built on the Next.js App Router with a Postgres backend.

Next.js · TypeScript · Supabase / Postgres · Clerk Auth · OpenAI API

SKILLS

Languages	Python · TypeScript · JavaScript · SQL
Cloud & DevOps	Azure · Azure Functions · Cosmos DB · Bicep · GitHub Actions · Cloudflare · Managed Identity · OIDC
Web	Next.js · React

EXPERIENCE

Freelance Technical Tutor

2024 · Remote

- Tutored university students in Python, web development, and software fundamentals.
- Reviewed student code, identified logic and structural errors, and gave targeted feedback to accelerate learning.

EDUCATION

BSc Computer Science

Lebanese American University · 2024

CERTIFICATIONS

Azure AI Fundamentals (AI-900)

Microsoft Certified · 2025