Yazan Alhelo

Forward Deployed Engineer · Healthcare Integration & AI

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SUMMARY

Healthcare IT engineer who takes clinical systems from requirements through SIT, UAT and go-live. I deploy Omnicell medication automation integrated with hospital EHRs (Cerner, Epic, Mediware) across 10+ UAE hospitals, working directly with pharmacists, nurses and hospital IT. I lead a 3-person remote team on a US 340B analytics platform and built Cura AI, a multilingual AI scribe and clinical assistant that works in Arabic and English.

EXPERIENCE

Integration Engineer, Healthcare IT — Hospinorm (Gulf Drug LLC), Dubai *Feb 2025 – Present*

- Deploy and support Omnicell medication cabinets across 10+ DHA, SEHA and private hospitals (Dubai Hospital, SKGH, KCH, Fakeeh, PRIME Health); lead the Abu Dhabi Civil Defence medical warehouse deployment.
- Run **SIT** for HL7 interfaces between EHRs and Omnicell (Cerner via Rhapsody, Epic and mock-HIS via Mirth, Mediware): every stream tested end to end (ADT, RDE, DFT, ZPM) with evidence for client sign-off. Support **UAT** with pharmacy and nursing teams before go-live.
- Plan cutovers around hospital maintenance windows: production snapshot, one-cabinet pilot, then full rollout.
- Wrote the full Cerner–Omnicell functional specification for Greenfields Abu Dhabi, including an HL7 mapping gap analysis. Turn clinical requests into configuration: cabinet mappings, unit merges, bed board changes.
- Debug production issues across systems: traced KCH stock updates missing in Cerner to wrong interface mappings and fixed them; traced a NICU patient missing from a cabinet through Epic, Mirth and cabinet logs.
- Wrote go-live guides for nurses and pharmacists, trained staff on 30 Cerner-integrated cabinets at SKGH, and ran CVE remediation on clinical servers with SEHA and vendors.

Development Team Lead — ClearMetrX (US), remote via partner firm *Feb 2024 – Present*

- Lead a 3-developer team building ClearMetrX, a healthcare analytics platform for the US **340B drug pricing program**, serving 40+ covered entities and 5 pharmacies.
- Full-stack .NET development: ASP.NET Core APIs, Angular front end, SQL Server / Azure SQL data models, deployed on Azure.
- Build 340B compliance analytics such as virtual inventory reconciliation, invoice processing and reporting for covered entities.
- Building v4.0: AI Master (a RAG-based AI assistant inside the product), Activity Intelligence and Dynamic User Management; write the progress updates used in CEO reviews.
- Own SQL pipelines processing millions of records daily; fixed Azure SQL blocking that was stalling invoice updates in production.

PROJECT

Cura AI — AI clinical assistant (my own project) *curaai.azurewebsites.net*

- Transcribes doctor–patient conversations in 12 languages including Arabic, labels speakers, and generates SOAP notes and visit summaries.
- Patient chart with an AI assistant for summaries, differential diagnosis and drug interactions, plus a "what if" simulator for medication changes. Demo uses fictional patients only.

SKILLS

Deployment & testing	SIT, UAT, go-live and cutover planning, test evidence, clinical staff training
Healthcare integration	HL7 v2.x (ADT, RDE, RDS, DFT, ZPM, ORU), FHIR, Mirth Connect, Rhapsody, Cerner, Epic, Mediware, Omnicell
AI	LLM applications, RAG, prompt design, clinical transcription and summarization, Claude Code, MCP
Engineering	.NET Core / C#, ASP.NET Core, Angular, SQL Server, Azure SQL, Azure, REST APIs
Security	CVE remediation, Qualys scans, firewall rules for clinical systems

EDUCATION, CERTIFICATIONS & RECOGNITION

Bachelor of IT in Software Engineering — Zarqa University, Jordan *2024*

Certificate of Appreciation — Omnicell Project, Sheikh Khalifa General Hospital *Recognition*

IBM RAG and Agentic AI Professional Certificate *In progress*

Problem Solving Programming Contest — Zarqa University *Aug 2023*

Languages: English (fluent), Arabic (native)