




DAN HARDAN

HEALTHCARE DATA | AI/ML | INTEROP

CONTACT

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PROFILE

Data Solutions Architect with 20+ years of experience in advancing healthcare through quality measurement, data quality, and interoperability. Specializes in aligning business, technology, and market needs to deliver scalable, AI-enabled solutions for learning health systems.

CAREER HIGHLIGHTS

National Committee for Quality Assurance (NCQA)

Clinical Solutions Architect 2024 – July 2025

- Data Quality Innovations:** Led technical vision for NCQA's data quality product assessing HEDIS data fitness using deterministic and probabilistic (AI/ML-based) rules aligned with the Kahn and PIQI frameworks to reduce PSV burden over 50%.
- CQL + Big Data:** Pioneered R&D efforts for enabling digital quality measures (dQMs) to execute at massive scale on modern data platforms (90% runtime reduction on identical hardware).
- Data Architectures for Clinical Measures:** Shaped data strategy for NCQA's clinical measures using industry best-practice architectures to define a scalable model advancing quality and interoperability for HEDIS (Care Delivery, Diabetes, CKM).

Veterans Affairs (Contractor)

Clinical Solutions Architect, Cloud Modernization Lead 2009 – 2024

- Population Health:** Pioneered VA's award-winning Electronic Quality Measurement (eQM) system certifying 130 VA facilities nationwide and computing data for over 9 million patients daily.
- Cloud Modernization:** Led VA's Azure cloud modernization effort of the Data & Analytics' Next Gen initiative, supporting hundreds of mission-critical analytic workgroups.
- Suicide Prediction & Prevention:** Drove technical design of the VA's suicide prevention solution using linear and logistic regression models to infer risk across 9M patients and over 100 features. Credited with saving an average of one life per day, according to an independent study.
- Data Czar:** Directed data quality, access, & interoperability of the COVID National Biosurveillance taskforce.

Microsoft Corporation

Senior Consultant, Business Intelligence 2005 – 2009

- OLAP Optimization Whitepaper:** Worked with SQL Server program management to develop and co-author Microsoft whitepaper on many-to-many performance optimizations.
- SSIS MapPoint Geocoder:** Created open-source pipeline component geocoding physical addresses for geospatial analytics.
- Solutions for Fortune 500:** Delivered BI solutions for several Fortune 500 clients including Aetna, Lexus Nexus, Coca-Cola, and American Express.
- BI Delivery Playbook:** Coordinated nationwide effort for establishing Business Intelligence Services Delivery Model, a best practice guide based on my delivery of InsurView product for Lexus Nexus.

EDUCATION

Bachelor of Science: Business 2015 to 2021
Penn State University

CERTIFICATION

- AI Professional Program** Dec 2025*
Stanford University
- Product Operating Model** Jan 2025
SVPG Product Masterclass

DOMAIN EXPERTISE

- Quality Measurement (eCQM & dQM)
- Healthcare Data Quality (Kahn, SQuaRE)
- Clinical Interoperability (TEFCA, HIE, FHIR, CCD, ADT, flat files)
- Healthcare Market Challenges & Trends
- Product Operating Model, Agile Disciplines
- Cross-functional Leadership & Delivery

ARCHITECTURES

- Data Lakehouse, Streaming Analytics (Structured Streaming, Event-driven)
- AI/ML Pipelines & Enablement (Feature Stores, Vectorization, Inference, MLOps)
- Interoperability-aware Analytics (SQL-on-FHIR, Semantic Mapping, HL7/CQL DSLs)

TECHNOLOGIES & PLATFORMS

Fabric | SQL Server | Azure SQL ●●●●●

Power BI ●●●●●

Databricks | Spark ●●●●●

PostgreSQL ●●●●●

DBT | Prefect | Airflow ●●●●●

LANGUAGES

SQL ●●●●●

Clinical Quality Lang ●●●●●

Python ●●●●●

Java ●●●●●

TypeScript ●●●●●

DAX, MDX ●●●●●

Docker | Terraform ●●●●●