

Neysha Pagán Vargas

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GitHub Portfolio: github.com/neypagan

Professional Summary

Strategic and solutions-driven Data Architect & Engineering Leader with 13+ years of experience designing and delivering enterprise-scale data solutions, directing cross-functional teams, and integrating AI to optimize workflows. Proven track record in Azure Data Lake, Azure Data Factory, Databricks, and Delta Lake implementations for Fortune 500 and mid-sized organizations. Adept at integrating data from multiple sources, architecting scalable Lakehouse ecosystems, and embedding AI/ML to automate data engineering processes and drive productivity. Skilled at translating business requirements into actionable data strategies, managing resource allocation across diverse teams, and ensuring high-quality, on-time deliverables.

Core Skills & Technologies

- **Data Architecture & Strategy:** Lakehouse Design (Bronze/Silver/Gold), Data Modeling (OLTP/OLAP), HA/DR (Always On, Clustering), Data Governance, RPO/RTO Strategies
- **Data Engineering & AI:** Azure Data Factory, Azure Databricks (PySpark, Notebooks), Delta Lake, Data Integration, ETL/ELT Orchestration, AI Integration in Pipelines (NLP, data classification, quality validation PoCs)
- **BI & Analytics:** Power BI, DAX, Tableau, KPI Development
- **Programming & Automation:** Python, T-SQL, PowerShell, Bash, JSON, R
- **Cloud & DevOps:** Azure, AWS, GitHub, CI/CD, Terraform, Infrastructure as Code
- **Collaboration & Leadership:** Team Management, Cross-Functional Stakeholder Engagement, Agile/Scrum, Resource & Capacity Planning

Certifications

- **Microsoft Certified:** Azure Database Administrator Associate | Azure Fundamentals | Azure Data Fundamentals | Administering a SQL Database Infrastructure | MTA: Database Fundamentals
- **Others:** SAFe 5.0 Agilist | Profisee Master Data Architect & Master Data System Administrator | IBM Big Data Technologies | Microsoft AI & Data Science

Professional Experience

Universal North America – Sarasota, FL

Database Architect / Consultant | Nov 2024 – Present

- Led enterprise-wide data governance initiative, integrating compliance, operational visibility, and security into a unified data strategy.
- Architected high-availability SQL Server clusters across multiple datacenters using Always On Availability Groups.
- Conducted strategic planning and feasibility assessment for a potential Azure migration, performing risk analysis, dependency mapping, and evaluation of cloud deployment models.
- Developed automated PowerShell and T-SQL scripts for health checks, index monitoring, and OS audits, with PoC integration of AI-based techniques for future pipeline optimization.

- Optimized configuration settings (MAXDOP, tempdb, file growth) and delivered index optimization plans, eliminating high-maintenance indexes.
- Created executive-level documentation for RPO/RTO targets, replication strategies, and operational governance frameworks.
- Achieved a 25% improvement in database performance through optimized configurations and targeted index maintenance.

Deloitte – FL / Remote

Lead Database Engineer, Data Ingestion Team | Oct 2022 – May 2025

- Designed and implemented Medallion Architecture for structured/unstructured data ingestion in Azure Databricks & Delta Lake.
- Built automated data quality processes within ETL pipelines, eliminating large volumes of redundant data and improving overall dataset consistency.
- Unified 15+ disparate data sources into a centralized Delta Lake, reducing reporting latency from 24h to under 2h.
- Led ingestion team using Azure Data Factory, Databricks, and PySpark, implementing SCD Type 2 for historical data tracking.
- Performed SQL Server architecture reviews and implemented performance tuning strategies, improving query performance by 40%.
- Produced governance documentation to align with enterprise cloud architecture standards.

Neudesic – NY / Remote

Senior Consultant I – Data & AI | Mar 2022 – Oct 2022

- Delivered enterprise Power BI solutions, designing tabular models and advanced DAX measures for KPIs and scenario analysis.
- Optimized Azure Synapse pipelines and views to support dimensional modeling and BI performance.
- Contributed to Data Governance Accelerator initiatives and evaluated Microsoft Purview integration.
- Mentored junior developers and hosted East Coast team meetings to foster collaboration and knowledge sharing.

GEEO – Remote

Database Architect / Consultant | Oct 2022 – Jul 2023

- Migrated MariaDB to SQL Server and Azure SQL, enabling tighter integration with reporting platforms.
- Designed and implemented reporting databases with RBAC and normalization for consistent analytics.
- Developed Excel and Power BI dashboards for performance tracking, improving decision-making for educational programs.

Education

- M.S. Applied Data Science, Syracuse University, NY — Expected Fall 2025 (GPA: 3.99)
- B.S. Computer Information Systems, University of Puerto Rico at Mayagüez

Languages

- English (Fluent) | Spanish (Fluent)

Additional Experiences (*details available upon request*): **Dude Solutions | Deloitte Services LP | DXC Technology | Molina Healthcare | Eastern Consulting Group | Puerto Rico Highway & Transportation Authority**