

## Professional Summary

**Data-driven, customer-obsessed, hands on-technical leader with over 15+ years of experience** leading technical teams to architect and deliver cloud-native data platforms (AWS, Azure) ensuring **annual savings** through scalable frameworks like **Medallion Architecture** and **Data Vault 2.0. Spearheaded** teams of 15+ engineers to build event-driven microservices and enforce GDPR/HIPAA compliance, reducing audit risks by 25%. Championed **AI/ML adoption** and **mentored junior engineers**, improving team productivity by 30% and slashing report generation times by 50%.

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## Technical Skills

Cloud Platforms: **AWS (Glue, Redshift, Kinesis, S3), Azure (Synapse, Data Factory, AKS)**  
Big Data & ETL: **Databricks, Apache Spark, Kafka, AWS Glue, Azure Data Factory, Apache Airflow**  
Data Architecture: **Medallion Architecture (Bronze/Silver/Gold), Data Vault 2.0, Dimensional Modeling, Delta Lake, Iceberg**  
ML/AI: **SageMaker, TensorFlow, MIFlow, Predictive Analytics**  
Leadership: **Cross-functional Team Leadership, Agile Project Management, Stakeholder Alignment, Governance Strategy**  
Tools: **Docker, Kubernetes, Power BI, Tableau, GitLab CI/CD, SQL/PLSQL, JAVA, Python, R**

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### Data Solution Architect

**Domain:** Energy/Oil & Gas

May 2024 – Current

- Built and led a high-performing team of 10 data engineers and solution architects, **fostering a culture of collaboration, innovation, and technical excellence.**
- Designed scalable, cloud-based data architectures **using AWS (Glue, Redshift, S3) and Azure (Synapse, Data Factory), reducing cloud costs by 30% and optimizing enterprise data strategies.**
- Developed technology roadmaps **that streamlined application portfolios, reducing redundancy by 40%** and aligning solutions with business objectives.
- Mentored and coached junior and mid-level architects, implementing a structured training program that improved team efficiency by 25% and increased employee retention.
- Implemented performance measurement frameworks to track engineering KPIs, architecture efficiency, and data pipeline SLAs, improving delivery timelines by 20%.

- Fostered a culture of accountability, enabling solution architects to independently resolve 40+ complex architectural challenges across multiple domains.
- Established strong cross-functional collaboration between engineering, business, and IT stakeholders, resulting in a 30% improvement in solution delivery time.

## City of Houston

### Manager – Data Solution Architect and Analytics

July 2023 – May 2024 | Woodland, TX

#### Domain: Government

- Led and managed a team of 5 data engineers and analysts, **overseeing hiring, performance management, and professional development to support** city-wide data initiatives.
- Developed a structured mentorship program, **providing coaching and technical guidance that improved team productivity by 35% and upskilled junior engineers in** cloud data technologies.
- Spearheaded the adoption of cloud-native data architectures (**Azure Data Lake, Snowflake, AWS Glue**), **improving** data accessibility for 20+ departments **while reducing operational costs by 35%**.
- Established performance metrics (KPIs) for data pipelines, **ensuring** 99.9% uptime and real-time monitoring **to minimize downtime and improve service delivery**.
- Managed cross-functional projects, **aligning data strategies with city governance policies, reducing manual data processing by 40%, and increasing efficiency in decision-making**.
- Built a team culture focused on accountability and innovation, **driving initiatives that enhanced** data governance, automation, and compliance with SOC 2 and GDPR standards.
- Implemented workforce planning strategies, **ensuring sustainable skill development and preparing the data team for** future cloud transformation projects.

Shell Energy North America | Lead Data Architect | Data Engineer | Jun 2022 – Present

#### Domain: Energy/Oil & Gas

- **Architected Scalable Solutions:** Designed **Medallion Architecture** using Databricks and Azure Synapse for centralized governance of 15TB+ datasets. *Choose Medallion over Data Mesh for compliance-heavy energy workflows* — **result:** 40% improvement in analytics reliability.
- **Led Cross-Functional Collaboration:** Coordinated with DevOps, cybersecurity, and business teams to align data strategies, reducing project delivery time by 25%.
- **Enterprise Data Strategy & Roadmap:** Architected a 3-year enterprise data roadmap using TOGAF ADM, unifying legacy systems, streamlining data governance, and accelerating \$8M digital transformation. Aligned stakeholders on AI/ML adoption (SageMaker, TensorFlow) and reduced integration costs by 25% with reusable architecture patterns.
- **Governance Leadership:** Spearheaded GDPR-compliant frameworks, reducing audit risks by 25% and training 10+ team members on compliance protocols.

Blue Cross Blue Shield | Senior Data Engineer | *Nov 2021 - May 2022*

**Domain:** Health Insurance

- **Streamlined Data Governance:** Standardized practices across 10+ sources using Azure AD and AWS IAM, reducing data discrepancies by 30%.
- **Scalable Analytics Platform:** Architected a **Medallion-based solution** (Bronze/Silver/Gold layers) using **Kafka** (real-time streaming), **Debezium CDC** (change data capture), and **Kafka Connect sink** to ingest and route data into **AWS Glue Spark SQL** and **Dataframe** for transformation. Optimized the **Gold layer** with **Star Schema** for analytics-ready data, **reducing report generation time by 50%** and enabling real-time business insights.
- **Team Mentorship:** Mentored five junior engineers on Databricks and Kafka, improving team productivity by 20%.
- **API Development:** Developed and deployed RESTful APIs for data access and integration, enabling seamless real-time business insights from data source to bronze layer.

Infoblox, Santa Clara, CA | Cloud Data Engineer | *Jun 2021- Nov 2021*

**Domain:** Cybersecurity

- **Cost-Optimized Storage:** Redesigned cloud storage with Azure Data Lake and AWS S3, achieving 20% cost reduction.
- **Leadership in Security:** Collaborated with cybersecurity teams to design ISO 27001-compliant workflows, minimizing breaches by 15%.
- **ETL Observability Engineering:** Developed and implemented **real-time monitoring** for ETL pipelines via API integration (Dremio) using **custom dashboards (Grafana/Prometheus)** and automated alerts, reducing **SLA breaches for data access by 40%** through proactive issue detection and resolution.

Prairie View A&M University | Data Analytics & Machine Learning Engineer-GRA |

*Jan 2021 - May 2021*

**Domain:** Research and Development

- **Predictive Flood Modeling:** Built **ML models** (TensorFlow, Keras, SageMaker) using **IoT rain gauge data** to predict flood risks in Houston's Bay Area, enabling proactive disaster response for local authorities.
- **Unified Data Integration:** Conducted research on cold and warm boot of containerized application using OpenWhisky
- **Cross-Disciplinary Collaboration:** Partnered with environmental scientists and policymakers to translate model insights into actionable flood mitigation strategies.

The World Bank | Project Data Manager | *Jan 2012 - Jul 2018*

**Domain:** International Development

- **Renewable Energy Project Leadership:** Directed end-to-end delivery of a **\$6M solar farm initiative** to power the Osun State Secretariat (Nigeria), streamlining government operations and reducing energy costs by 30%.

- **Social Intervention Database:** Architected and developed a scalable database consolidating **citizen data from 500K+ households** (via surveys and stakeholder meetings) under the **World Bank YESSO program**, enabling targeted social welfare programs for low-income families in Nigeria, reducing poverty rates by 15%.
  - **ETL Pipeline Optimization:** Designed and monitored pipelines to integrate multi-source data (demographic, economic, geospatial) with PLSQL and Oracle Apex, ensuring seamless data flow for real-time policy decision-making.
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## EDUCATION

- **PhD in Computer Engineering** (Data Science in Computational Biology) | Prairie View A&M University, TX | **2023 – Present**
  - **Master of Science in Computer Science** | Prairie View A&M University, TX | **2021 – 2022**
  - **Graduate Diploma in Computer Science** | Ladoke Akintola University of Technology, Nigeria | **2017**
  - **Master of Business Administration (MBA)** | Business School Netherlands, Netherlands | **2013 – 2015**
  - **Bachelor of Science in Soil Science** | Obafemi Awolowo University, Nigeria | **1997 – 2003**
    - *Career Transition:* Pivoted to tech through certifications (AWS, PMP) and graduate education in computer science. Strong ability to learn new technology and programming languages.
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## CERTIFICATIONS

- **AWS Certified Solutions Architect – Professional** | Amazon Web Services
  - **Databricks Platform Architect** | Databricks Academy
  - **Project Management Professional (PMP®)** | PMI (ID: 1212004)
  - **Oracle Certified Associate (OCA)** | Oracle
  - **Sun Certified Programmer for Java Platform** | Oracle
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## Awards & Leadership

- **IBM Master Global Award Winner** | 2021/2022
- **Microsoft TEALS Volunteer Instructor** | 2022/2023 (*Trained 50+ students in cloud architecture*)