

Surendra R. Lingamallu

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SUMMARY

Data Engineer and Analytics Developer with 20+ years of experience designing and developing enterprise-scale data solutions, optimizing mission-critical pipelines, and driving data-driven decision-making. Proficient in Python, PySpark, SQL, Palantir Foundry, data bricks and SAP HANA with expertise in modernizing legacy systems, harmonizing cross-domain datasets, and building scalable data models. Adept at translating complex business requirements into robust data products and fostering collaboration across technical and non-technical stakeholders.

CLEARANCE:

Top Secret Clearance from DOD

MBI Clearance from IRS

EXPERIENCE

Arka Services LLC

Jun. 2023 – Present

Senior Data Specialist | IBM Federal Services – IRS BMF Modernization Program

- Data Integration & Analytics Platforms: Automated large-scale data ingestion and transformation workflows using Databricks and PySpark, improving data availability for real-time taxpayer interactions.
- Data Modeling & Ontology Mapping: Designed optimized data models (star schema) with Hackolade to unify domain-specific datasets, improving query performance by 40% for compliance and fraud detection use cases.
- Built interactive Tableau dashboards for self-service reporting, empowering stakeholders with actionable insights and enabling timely decision-making on legislative and customer service priorities.
- Collaborated with cross-functional teams, ensuring that the IRS's evolving data needs were met, resulting in agile responses to legislative changes and improved customer service outcomes.

Senior Data Specialist | KPMG LLC – AirforceOne Program (AF/AIXD)

- Palantir Foundry Application Development: Engineered Foundry pipelines to integrate HR, logistics, and operational datasets from 15+ sources, enabling unified analytics for 10K+ users.
- Pipeline Builder & Ontology: Orchestrated cross-domain data harmonization using Foundry Ontology Pipelines, transforming raw data into structured fact/dimension tables (PostgreSQL) for enterprise decision intelligence.
- Client Services & Agile Delivery: Collaborated with DoD stakeholders to migrate legacy SAS workflows to PySpark/Foundry, improving processing efficiency by 40% and enabling predictive staffing models.
- Collaborated with stakeholders to transition legacy Tableau assets to Foundry Contour/Workspace dashboards, enhancing self-service analytics and reducing ad-hoc reporting workloads by 30%.
- Transitioned Tableau reports to Power BI dashboards, leveraging advanced features like Power Query, DAX, and Dataflows, creating dynamic and interactive visualizations that enhanced operational insights.

LMI Consulting, LLC

Oct. 2017 – Jun. 2023

Senior Consultant | ADVANA – Chief Digital and Artificial Intelligence Office (CDAO)

- Developed simulation models for the Supply Chain Risk Evaluation Environment (SCREEn), leveraging insights from the F-35 pilot rollout to optimize supply chain part replacement strategies, reducing operational downtime and increasing efficiency for new platforms.
- Designed Foundry-backed simulation models for supply chain risk analysis, reducing part replacement lead times by 25% through predictive demand forecasting.
- Built PySpark pipelines to ingest and harmonize SAP transactional data with Foundry datasets, resolving supply chain bottlenecks and improving inventory accuracy by 35%.

- Automated large-scale document analysis workflows using Python and Foundry Code Repositories, reducing manual processing time by 50% and enhancing auditability.
- Built a solution to capture edits/comments from large documents using VBA, Python, Power BI, and Power Automate/Azure Dataverse, enhancing document management workflows and reducing processing time.

Senior Consultant | *Army Data Platform (ADP), ARDAP – GCSS-Army Increment 2*

- As an SAP HANA Developer, I engineered end-to-end logistics solutions for the US Army, focusing on supply chain metrics like equipment readiness and maintenance efficiency.
- Developed complex HANA Calculation Views using SQLScript and star joins, optimized via partitioning/indexing to reduce reporting latency by 65%. Integrated ECC 6.0 transactional data (via SLT replication) with SAP BW/4HANA mixed scenarios and built ABAP CDS views to expose supply chain KPIs (MTTR, MTBF) for real-time dashboards.
- Leveraged SAP Data Intelligence with Spark for ETL automation and AWS S3 integration. Collaborated with GCSS-Army, LMP, and Advana to align HANA models with enterprise logistics workflows.
- Delivered 15+ HANA-driven reports and dashboards (e.g., Aviation Equipment Readiness) directly supporting strategic decision-making. Expertise spans HANA 2.0, ECC ABAP development, and SAP BusinessObjects, with a focus on optimizing supply chain visibility and performance.

Alta Via Consulting LLC

May 2016 – Oct. 2017

Consultant | *GFEBS (US Army)*

- Facilitated seamless integration between GFEBS and GCSS-A financial management systems, improving data flow and enabling comprehensive budgetary oversight.
- Developed budget monitoring and expenditure tracking features within SAP, ensuring fiscal responsibility and enhancing budgetary control processes.
- Created and maintained dashboards and reports using GFEBS BI tools, SAP BW, SAP BOBJ, and Power BI, delivering stakeholders clear insights into financial data and improving decision-making efficiency.
- Extracted, transformed, and loaded data from SAP Hana and Vantage (Palantir) to streamline financial reporting, increasing accuracy and operational efficiency.

Siri Solutions Intl Inc.

Sept. 2012 – May 2016

Consultant | *LMP (US Army)*

- Developed and maintained BI reports to deliver actionable insights into supply chain performance, logistics operations, and financial activities, empowering informed decision-making.
- Contributed to the SAP HANA migration, leading implementation, post-implementation support, and data validation, ensuring a seamless transition and improved system performance.
- Provided production support for LMP business processes, addressing critical operational issues and ensuring uninterrupted logistics activities.

Consultant | *CapitalOne360/INGDirect*

- Led the design and implementation of data integration solutions between Capital One and INGDirect following their merger, ensuring seamless data flow across systems and enabling a unified customer experience post-acquisition.
- Defined and implemented organizational Data Standards and Enterprise Conceptual Data Architecture, providing a clear framework that aligned the data infrastructure with business goals and drove consistency across all data processes.
- Led the ETL team and managed data integration processes, overseeing project execution and ensuring data integration efforts were aligned with the company's operational needs.

Accenture Services

Sept. 2004 – Sept. 2012

Database Specialist

- Contributed to the development of the First Data Debit Card PAR project using Oracle, Sql Server, Java, JSP and Power Builder.
- Collaborated with business users to analyze requirements and translate them into comprehensive data models (Conceptual, Logical, and Physical), ensuring data alignment with business objectives and project goals.
- Led data analysis and profiling activities, identifying and evaluating data sources to support project objectives, resulting in more accurate and reliable data for processing transactions.
- Collaborated with cross-functional teams (data stewards, ETL developers) to enforce data quality standards and optimize TIBCO-based middleware integrations. With cross-functional teams (including business SMEs, data stewards, data architects, and ETL developers) to ensure data quality and consistency throughout the project, driving the integrity of database solutions.

EDUCATION

Master of Business Administration (MBA), Finance

Delaware State University

SKILLS

Technical

ETL/ELT Pipeline Design & Development | Data Modeling (Conceptual, Logical, Physical)| Dimensional Modeling (Star & Snowflake Schema)| Data Warehousing & Data Integration| Cloud Technologies (AWS, SAP HANA)| Data Visualization (Power BI, Tableau)| Data Transformation & Automation (Palantir Foundry, Databricks, Informatica, Apache NiFi)| SQL & Python Programming | API Integration & Management | Cloud Migration & Data Optimization | Data Processing & Automation (VBA, Power Automate) | Data Governance & Quality Management | Database Management (Oracle, Teradata, SQL Server, PostgreSQL, Redshift) | Reporting & Dashboard Development | Data Analysis & Profiling | Power Query, DAX, Dataflows
SAP BW, SAP BOBJ | Palantir Foundry, Dataverse

Soft

Problem-Solving & Critical Thinking | Project Management & Resource Allocation | Cross-Functional Team Collaboration | Leadership & Mentorship| Stakeholder Engagement & Communication | Agile/Scrum Methodology
Demand Management & Prioritization