

Rama Krishna Kamma

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SUMMARY:

Experienced Data Engineer with a strong background in building scalable, real-time data pipelines and optimizing big data solutions using Azure, AWS, Databricks, Python, and SQL. Skilled in designing ETL frameworks that support analytics, customer needs, KPIs, and operational efficiency while leveraging open-source technologies and Azure core services. Adept at automating manual processes, performing root cause analysis, and applying DevOps principles to streamline deployments and improve data reliability. Proven ability to collaborate with cross-functional teams, lead triage sessions, and resolve complex technical issues while delivering data-driven insights aligned with business solutions. Experienced in delivering AI-powered insights, cloud-native solutions, and customer-focused intelligence for business-critical use cases across Transportation, Finance, Healthcare, and Supply Chain domains. Passionate about solving complex data challenges to drive innovation, measurable impact, and continuous improvement across the enterprise.

SKILLS SUMMARY:

Big Data Technologies	Databricks, Data Factory, PySpark, Spark SQL, Fabric, Delta Lake, EMR, Lambda
Databases	MySQL, MongoDB, Oracle, Microsoft SQL Server, BigQuery
Programming Skills	Python, Java, C/C++, R
Data Storage and Management	Azure Data Lake Storage (ADLS), Azure Blob Storage, Azure Synapse Analytics, Unity Catalog, Auto Loader, GCP, AWS S3
Reporting and Visualization	Microsoft Power BI, AI/BI Databricks Dashboards, Microsoft Office
SQL	Joins, Partitions, Window Functions, Performance Tuning
Agile Methodologies	Scrum, Kanban, Sprint Planning, Backlog Refinement
DevOps and Other Tools	Git, GitHub, Azure DevOps, Postman, JIRA, Figma, SharePoint, Confluence, Excel, DBEvar, Power Platform, Azure Data Explorer, PowerApps

EDUCATION & CERTIFICATIONS:

- Master of Science (Computer and Information Sciences) from Texas A&M University - Commerce
- Databricks Certified Data Engineer Professional Databricks Certified Data Engineer Associate
- Azure Administrative Associate (AZ-104) Azure Power BI Data Analyst Associate (PL-300)
- Azure Power Platform Fundamentals (PL-900) Azure Fundamentals (AZ-900)

PROFESSIONAL EXPERIENCE:

Radius Recycling

Nov 2024 – Present

Business Intelligence Engineer

Portland, Oregon

- Designed and optimized **production-grade ETL** pipelines using SQL, Python, Azure Data Factory, and Databricks to ingest and large-scale data processing from diverse sources including MySQL, Oracle, APIs, and CRO software, enhancing data quality and **Power BI** dashboard performance.
- Built **interactive dashboards** for freight savings, RFPs, carrier metrics, enabling **\$5M+ in annual savings**, 12% cost reductions, and **30% faster business decisions**. Efficiently troubleshooting Azure network connectivity issues.
- Designed and implemented a **Knowledge Assistant** using Databricks **Agentic AI** to enable natural language Q&A over compliance documents, reducing manual review effort and helping the Safety team analyze large volumes of regulatory content more efficiently. Working on the **car price prediction** using Machine learning.
- Implemented carrier feedback form using Forms integrated with **Power BI Apps**, enhancing feedback collection and root-cause analysis. Mentor junior team members and offer ongoing guidance and support.
- Collaborated with cross-functional teams to develop self-service Power BI dashboards and **paginated reports** supporting key business units finance, transportation, metals, and safety.
- Spearheaded cost-saving initiatives by leading the first implementation of Power BI **writeback** using Microsoft **Fabric (translytical task flows)**, reducing annual reporting costs by over **75% (from \$24K to \$6K)**.
- Collaborated on **Genie** by gathering business requirements fine-tuning models to boost analytics and insights.
- Developed **AI/BI Databricks** dashboard PoC demonstrating advanced use cases; independently built **Gen AI** with **RAG** PoC to enable contextual, AI-driven insights. Identified, escalated critical **DS3 cluster** bug to Databricks team.
- Created **lane-wise cost variance dashboards**, recovering **\$40K in overpayments** and improving contract compliance by **20%**. Automated the weekly data sent to business users using **Power Automate**.
- Partnered with stakeholders in Identified freight billing **anomalies** in WBRs, enabling 7–10% overcharge recovery.

Texas A&M University

Sep2022 – May 2024

Business Intelligence Developer – Data Analytics and Data Visualization

Commerce, TX

- Built scalable ETL workflows using Azure Data Factory to process user logins, attendance, and **membership** data. Applied analytical skills and security operations practices to improve customer service and satisfaction.
- Engineered reusable data models for analytics on facility usage, program participation, and user segmentation.
- Developed Power BI dashboards for peak hours, activity trends, and class engagement, enabling strategic planning. Enforced data privacy with **RBAC** and masked **views** in SQL, in partnership with IT.
- Automated data refresh using parameterized ADF pipelines and scheduled Power BI **gateway** refresh.
- Boosted engagement by 20% by identifying underutilized time slots and recommending new events. Empowered teams with self-serve BI tools and shared datasets, reducing ad-hoc requests by 70.
- Utilized Azure Databricks to reduce **manual reporting** effort by 80% through workflow automation, enabling faster access to critical operational insights.

Tata Consultancy Services

Dec 2021 – Aug 2022

Data Engineer – Cloud Integration and Data Modeling

IN

- Ingested data from MySQL, Oracle, Azure SQL, and flat files into ADLS Gen2, and made curated data available in **Snowflake** to support BI and business analytics use cases.
- Built and optimized **Medallion architecture** (bronze, silver, gold) with PySpark and Delta Lake, improving modularity and boosting query performance by 40%.
- Developed dimensional models, implemented **Slowly Changing Dimensions (SCDs)**, and executed schema standardization and anomaly detection to support reliable reporting solutions.
- Reduced Databricks query times by 25% via **caching**, optimized joins, and **Z-Ordering** for faster data skipping.
- Partnered with Data Admins to support CI/CD using **Azure DevOps**, contributing to deployment workflows and monitoring execution via Spark UI, logs, analyze performance data and optimize via data partitioning.
- Collaborated with Data Scientists, QA teams, business users and stakeholders to build production-grade pipelines with embedded data validation scripts, automated quality checks, and unit testing.
- Secured data access with Azure Key Vault and applied data masking policies using **Unity Catalog** to protect **PII**, enforce data governance and lineage tracking. Designed data models, managed schema evolution.
- Resolved real-time data issues, reducing incident response time by 35% and ensuring high platform uptime.

Client: Schnitzer Steel

Nov 2020 – Nov 2021

Data Engineer – Azure & ETL Optimization

IN

- Developed and maintained **ETL pipelines** using **SSIS**, **SQL**, and **Databricks** to extract data from **MySQL**, **Oracle**, and **Delta Lake**, ensuring high data accuracy and availability across enterprise operations.
- Implemented **Azure Data Lake Storage** replication and failover strategies to support real-time analytics for **safety audits**, **asset utilization**, and **transportation metrics**. Strong knowledge of Hadoop ecosystem.
- Supported Databricks application development by implementing **configuration** changes, optimized code and applying solid software engineering practices with strong accountability and teamwork.
- Built Power BI report generation for **route optimization**, equipment downtime, and incident tracking, leveraging strong analytical skills, ability to prioritize, and troubleshoot issues to support stakeholders in making decisions.
- Conducted **performance tuning** across **SQL** and **Spark** workloads, resulting in a **40% improvement** in data.
- Automated deployments via **CI/CD pipelines** using **Git** and **Azure DevOps**, reducing deployment failures and enhancing release cycles for production-ready data assets. Code promotion in ADF with ARM templates.
- Monitored pipeline health and performance using **Spark UI** and integrated alerts, ensuring timely resolution of failures and consistent delivery of analytics to finance applications, health, EAM and transportation teams.

UrbanJet Hospitality Services Pvt Ltd, Hyderabad, India

Jan 2019 – Jun 2020

Data Analyst Intern

- Designed and optimized semantic models using **Power Query** and **DAX**, ensuring attention to detail, data integrity, and alignment with customer needs through effective data modeling.
- Conducted statistical data analysis, **EDA** and built **SSIS** packages for streamlined data integration workflows, incorporating Row-Level Security to protect sensitive datasets while delivering reports with intuitive UI/UX.
- Demonstrated strong problem-solving skills, communication skills and organizational skills by resolving complex data challenges and reporting processes, while efficiently prioritizing multiple tasks to meet project deadlines.
- Took a resourceful and friendly approach to team collaboration and led retrospective sessions to capture best practices and continuously improve the **software development life cycle (SDLC)**.