Hulash Chand Donempudi

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Data Engineer

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Professional Summary

AWS-certified Data Engineer with 5+ years building secure, compliant data platforms for financial services and regulated industries. Specialized in real-time transaction processing, regulatory reporting, and risk analytics architectures. Proven track record delivering zero-data-loss migrations, PII/PCI-compliant pipelines, and sub-minute latency systems processing 100M+ monthly transactions while maintaining SOX audit readiness and comprehensive data governance controls.

Technical Skills

- **Cloud Platforms**: AWS (Kinesis, S3, EMR, Redshift, Glue, Lambda, RDS, Aurora, DynamoDB, MSK, Step Functions), Azure Data Factory, Azure Synapse, GCP BigQuery, Terraform, CloudFormation

- **Data Engineering & ETL**: Apache Spark, Apache Kafka, Airflow, Databricks, Snowflake, Delta Lake, Apache Flink, Real-time streaming pipelines, Data pipeline orchestration

- **Programming & Scripting**: Python, SQL, Scala, Java, R, Shell/Bash

- **Data Governance & Quality**: Data lineage tracking, PII/PCI data handling, Encryption (at-rest/in-transit), Data quality frameworks, Infrastructure as Code, Audit logging

- **Databases**: PostgreSQL, MySQL, Oracle, Redis, DynamoDB, MongoDB

- **Analytics & Visualization**: Tableau, Power BI, Jupyter Notebooks, SQL-based analytics

- **DevOps & CI/CD**: Jenkins, GitOps, ArgoCD, Docker, Kubernetes

Professional Experience

- **Innowise Solutions**   Leicester, United Kingdom
  Data Engineer – AWS Consultant   *March 2024 – Present*
    - **Real-Time Financial Data Pipelines**: Architected fault-tolerant real-time streaming platform (Kafka, Spark, Kinesis, Lambda) processing 100M+ monthly transactions with sub-minute latency for financial services clients.
    - **Cloud Migration & Data Governance**: Enabled near real-time risk monitoring and operational reporting, supporting regulatory compliance and business decision-making.
    - **Cost Optimization & Infrastructure Automation**: Reduced cloud infrastructure costs by 35% through Terraform-based infrastructure-as-code automation, optimized S3 lifecycle policies, and right-sized EMR clusters while improving system throughput and data processing efficiency
    - **Technical Leadership & Mentoring**: Mentored 3 junior engineers on AWS best practices, data pipeline design patterns, CI/CD implementation, and performance optimization techniques, improving team delivery velocity and code quality standards

- **Professional Development & Advanced Studies**   Bristol, United Kingdom
  MSc Data Science with Financial Technology, University of Bristol   *September 2023 – April 2024*
    - **Academic Focus**: Completed coursework in machine learning, statistical computing, financial data analytics, and algorithmic trading while developing expertise in Python, R, and data engineering for financial applications
    - **Continuous Learning**: Earned 7 professional certifications including AWS Certified Data Engineer, AWS Developer Associate, and Tableau Data Analyst during this period to strengthen cloud and analytics capabilities

- **Deloitte USI**   Hyderabad, India
  Automation Analyst – Data Automation & Financial Reporting   *January 2020 – October 2021*
    - **Tax Compliance Automation**: Automated tax liability calculations and regulatory reporting workflows for 30+ legal entities using Python, SQL, and Excel, reducing month-end close time by 40% and eliminating manual errors in SOX-compliant financial reporting processes
    - **Financial Reconciliation Platform**: Designed and implemented SQL-based data validation frameworks and Power BI dashboards to track multi-entity tax positions, improving reconciliation accuracy and providing real-time visibility to finance leadership and external auditors
    - **Data Quality & Audit Readiness**: Established automated data quality checks and audit trail mechanisms ensuring 100% traceability of financial calculations, supporting successful SOX audits and regulatory examinations with zero findings related to data accuracy

Professional Certifications

- **AWS Certified Data Engineer – Associate**: Amazon Web Services (2024)
- **AWS Certified Developer – Associate**: Amazon Web Services (2023)
- **AWS Certified Cloud Practitioner**: Amazon Web Services (2023)
- **Tableau Certified Data Analyst**: Tableau Software (2023)
- **MongoDB Certified Developer**: MongoDB University (2023)
- **Microsoft Certified: Azure Fundamentals**: Microsoft (AZ-900, 2023)
- **Microsoft 365 Certified: Fundamentals**: Microsoft (MS-900, 2023)

Education

- **University of Bristol** — Bristol, United Kingdom
  Master of Science in Data Science with Financial Technology — *September 2022 – September 2023*
- **Indian Institute of Management, Kozhikode** — Online Programme (Upgrad)
  Professional Certificate in Statistical Computing, Machine Learning & AI — *June 2021 – February 2022*
- **ICFAI Business School, ICFAI University** — Hyderabad, India
  Bachelor of Business Administration (Finance & Banking) — *August 2016 – March 2019*

Professional Development & Community Engagement

- **Technical Mentorship & Education**: Actively mentoring aspiring data engineers through ADPList and MentorCruise platforms, providing career guidance, technical coaching on AWS and Python, and code reviews.
- **Personal Data Engineering Projects**: Developing open-source financial analytics projects on GitHub using Apache Kafka, Spark Streaming, and AWS services to process real-time market data; built automated portfolio tracking system with PostgreSQL and Python.
- **Financial Domain Expertise**: Preparing for CFA Level 1 examination to deepen understanding of financial markets, investment analysis, and regulatory data requirements; actively manage personal investment portfolio using quantitative trading strategies implemented in Python
- **Regulatory & Compliance Knowledge**: Completed GDPR Data Protection and Privacy certifications independently; self-studied Basel III banking regulations, PCI-DSS compliance standards, and their technical implementation requirements to strengthen domain expertise in regulated financial services
- **Technology for Social Impact**: Volunteer data engineering consultant for 2 local non-profit organizations, designing cost-effective data infrastructure on AWS free tier and building Power BI dashboards to track program effectiveness and donor impact, enabling data-driven decision making