

Jashwanth Reddy Earla

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SUMMARY

Data engineer with 4 years developing production-grade solutions on AWS, GCP, and open-source stacks. Skilled in building scalable ETL/ELT pipelines, automating data quality controls, and driving availability for actionable analytics at 99.9% uptime. Proficient in Python, SQL, Spark, and Airflow, with a track record of optimizing data flows, reducing costs, and enabling self-service BI and reporting.

TECHNICAL SKILLS

- **Languages:** Python, Java (OOP, JDBC), SQL, PL/SQL, C++ , Shell/Bash
- **Cloud & Platforms:** GCP (BigQuery, Dataflow), AWS (Lambda, S3, EventBridge, EC2), Azure, Linux, Windows
- **Frameworks & Tools:** Apache Airflow, Apache Spark, dbt, Kafka, Node.js, Flask, React, Power BI, Tableau, Jupyter
- **DevOps & Testing:** CI/CD pipelines, Jest, Mocha, PyUnit, Automated QA, Reporting automation
- **Key Domains:** Data Warehousing, Realtime / Batch ETL, Data Modeling, Logistics
- **Collaboration:** Cross-functional teams, Release documentation, Compliance reporting

EXPERIENCE

Software Engineer, Hexagon R&D India – Hyderabad, India Aug 2021 – Aug 2023

- Developed and launched 3 production microservices for Intergraph SDx using Agile Scrum, now standard features in Oil, Gas, and Marine sectors across 10+ international markets.
- Accelerated Smart3D SDx RESTful API response time by 60% (from 1s to 400ms) via Flask back-end optimization, Redis caching, and Couchbase query tuning, enabling faster user workflows.
- Built Kanban dashboard for Jupiter Tracking System, using Node.js (API), React (UI), MySQL (DB), and real-time GraphQL subscriptions to streamline sprint management and increase workflow clarity.
- Automated unit test coverage for critical SDx services with Jest, Mocha, PyUnit, achieving 90% coverage and cutting production bugs by 50%.

Data Engineer, Inventeron Technologies – Bangalore, India Aug 2019 – Jul 2021

- Migrated legacy CRM codebase to Node.js and Express.js, integrating Apache Kafka for decoupled microservices and reliable messaging, boosting system performance by 35% and reducing maintenance toil by 40%.
- Enhanced CRM authentication using WebAuthn and OIDC, strengthening security and aligning with industry best practices.
- Automated AWS infrastructure management with EventBridge, Lambda, and Step Functions, delivering hands-off EC2 snapshot backup with 80% less manual intervention and 100% reliability.

PROJECTS

Real-Time Sales Data Pipeline & Analytics | *Python, Airflow, Kafka, PostgreSQL, AWS S3, Tableau*

- Built robust, real-time ETL pipeline with Kafka and Python to ingest and process 10,000 records/minute sales data, supporting rapid business analytics.
- Designed Airflow DAGs for orchestrating batch loads and automated daily validation, ensuring data reliability and transparency.
- Streamlined storage and audit by transforming data into PostgreSQL and archiving raw JSON into AWS S3 for recovery.

Scalable Data Warehouse and Transformation | *SQL, Google BigQuery, dbt, Data Modeling, Python, Looker*

- Architected multi-region data warehouse in Google BigQuery for e-commerce order and customer analytics, scaling to support rapid business growth.
- Implemented modular dbt transformation layer with star schema modeling, enabling repeatable, auditable analytics for downstream teams.
- Improved data access by 40% and cut costs 35% using partitioning, clustering, and materialized views.

EDUCATION

Concordia University - Montreal Sept 2023 – May 2025
MS in Quality Systems Engineering

Osmania University - Hyderabad July 2017 – Aug 2021
Bachelors in Engineering