

AKASH DEVENDRA GAWANDE

Senior Data Engineer

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PROFESSIONAL SUMMARY

Results-driven Senior Data Engineer with 5+ years of expertise in designing, developing, and deploying enterprise-scale ETL solutions using Talend Enterprise Edition and Big Data technologies. Proven track record in architecting data integration workflows, implementing real-time streaming pipelines with Apache Kafka, and optimizing data warehousing operations across cloud and on-premise environments. Proficient in leveraging AWS S3, REST APIs, and various data formats (CSV, Excel, XML, JSON) to deliver scalable, high-performance data solutions. Strong background in database optimization, migration strategies, and stakeholder collaboration to drive business intelligence initiatives. Expert in Talend Administration Console (TAC) and Talend Management Console (TMC) for production job scheduling, monitoring, and workflow management.

CORE COMPETENCIES

ETL & Data Integration: Talend Enterprise Edition, Talend Open Studio, Talend Big Data, Data Warehouse Design, ETL Pipeline Development

Databases & SQL: Oracle, MySQL, PostgreSQL, Vertica, Database Migration, Query Optimization, Performance Tuning

Real-time Data Integration: Apache Kafka, REST API Integration, Real-time Data Streaming

Cloud Technologies: AWS S3, Cloud Data Storage Solutions, RESTful API Integration, Cloud-based Data Migration

Job Scheduling & Management: Talend Administration Console (TAC), Talend Management Console (TMC), Production Job Scheduling, Workflow Automation

Data Formats & APIs: CSV, Excel, XML, JSON, REST API Development, Multi-source Data Extraction

ETL Methodologies: ETL Design Patterns, Slowly Changing Dimensions (SCD Type 1/2), Incremental Loading, Data Quality Management

PROFESSIONAL EXPERIENCE

Senior Data Engineer

Exponentia AI | September 2024 - Present

- Architected and deployed enterprise-grade ETL pipelines using Talend Enterprise Edition, integrating Apache Kafka for real-time data streaming and REST APIs for seamless third-party system connectivity, reducing data latency by 40%.
- Implemented advanced transformation logic and complex job workflows to process multi-source data, ensuring data accuracy and consistency across distributed systems.
- Managed end-to-end job scheduling and monitoring through Talend Administration Console (TAC), optimizing execution workflows and maintaining 99.5% uptime for critical data integration processes.
- Collaborated cross-functionally with data architects, business analysts, and stakeholders to design scalable data warehousing solutions aligned with business objectives and technical requirements.

- Established data quality frameworks and validation rules, improving data integrity by 35% and reducing downstream analytical errors.

Software Engineer (Data Engineering)

Netlink Software | December 2022 - July 2024 (1 year 8 months)

- Designed and maintained robust ETL processes for extracting, transforming, and loading data from heterogeneous sources including Oracle, MySQL databases, flat files, and cloud storage systems.
- Optimized data integration workflows by refactoring legacy Talend jobs and implementing parallel processing techniques, achieving 50% performance improvement and enhanced data accuracy.
- Partnered with data architects, analysts, and business stakeholders to gather requirements and ensure accurate, timely data delivery for BI reporting and analytics initiatives.
- Developed and maintained data transformation logic using Talend components, ensuring business rules were correctly applied during the ETL process.
- Created comprehensive data mapping documentation and technical specifications to support knowledge transfer and project scalability.

Junior BI Backend Developer

Billennium IT Services | June 2022 - November 2022 (6 months)

- Developed ETL solutions using Talend for Data Integration in both Open Studio and Enterprise Edition, supporting business intelligence reporting and analytics requirements.
- Configured and scheduled Talend jobs using Talend Management Console (TMC), ensuring automated, timely execution and proactive monitoring of data pipelines.
- Utilized AWS S3 for scalable cloud-based data storage and retrieval, implementing best practices for data partitioning, versioning, and lifecycle management.
- Performed data validation and quality checks to ensure accuracy and completeness of loaded data in target systems.

ETL Developer

ICEICO Technology Pvt Ltd | December 2019 - June 2022 (2 years 7 months)

- Implemented ETL solutions using Talend Open Studio, incorporating Slowly Changing Dimensions (SCD) Type 1 and Type 2 techniques for effective historical data tracking in data warehouses.
- Designed and developed incremental load strategies to optimize data processing efficiency and reduce system resource consumption.
- Scheduled and monitored Talend jobs using Talend Administration Console (TAC), maintaining operational efficiency and ensuring service level agreement (SLA) compliance.
- Managed data storage, versioning, and retrieval operations using AWS S3, optimizing storage costs while maintaining data accessibility and reliability.
- Executed end-to-end data migration projects from legacy systems to modern data platforms, ensuring zero data loss and minimal operational downtime.

KEY PROJECTS & ACHIEVEMENTS

Niva Bupa Health Insurance Platform | 200 Days | Exponentia AI

- Contributed to health insurance platform development, focusing on data integration for digital services including instant policy issuance, automated renewals, and customer information management.
- Implemented ETL workflows to support the company's mission of making quality healthcare accessible and affordable.
- Developed data pipelines to handle policy data, customer records, and claims information efficiently.

Niva Bupa Kafka Real-time Data Integration Project | Exponentia AI

- Built real-time data integration pipelines using Talend Big Data to process health insurance policy and customer data.
- Consumed real-time data streams from Apache Kafka through REST API endpoints, enabling continuous data flow.
- Implemented business logic and data transformations in Talend to process incoming data according to business requirements.
- Sent processed data back to downstream systems through REST APIs for further processing and distribution.
- Stored final processing status and transaction records in PostgreSQL database for tracking and audit purposes.

AIC Talend Migration Project | Exponentia AI

- Managed end-to-end migration of 32 Talend ETL jobs, consolidating them under a single parent job for better control and monitoring.
- Migrated jobs from Talend Open Studio 7 to Talend Enterprise Edition 8, ensuring compatibility and leveraging new enterprise features.
- Transitioned job scheduling from Windows Task Scheduler to Talend Administration Console (TAC) for centralized management.
- Identified and resolved migration issues including component compatibility, context variable configurations, and database connections.
- Ensured stable execution of all migrated jobs in the production environment with zero data loss.

National Health Mission (NHM) Data Integration | 584 Days

- Integrated disparate data sources from national and state-level healthcare programs to create a unified data platform, improving healthcare accessibility and quality for rural populations across India.
- Extracted, transformed, and loaded data from multiple formats (CSV, Excel, REST APIs) into a centralized Oracle data warehouse, creating a single source of truth for healthcare operations.
- Developed custom ETL workflows and transformation logic to standardize healthcare data from various programs, enabling consistent reporting and analysis.
- Implemented comprehensive error handling and exception management mechanisms throughout the ETL process, reducing data processing failures by 60%.
- Created data models and developed logic for dashboard visualization, enabling real-time decision-making for healthcare administrators and policymakers.
- Gathered and analyzed requirements from multiple stakeholders across various healthcare programs, ensuring ETL processes aligned with program-specific needs and reporting requirements.

EPFO Modernization Initiative | 67 Days

- Spearheaded data integration and processing system modernization for Employee Provident Fund Organization, handling high-volume data for millions of employee records including contributions, withdrawals, and interest calculations.
- Engineered robust ETL pipelines using Talend Enterprise Edition to ensure efficient and reliable data flow across multiple legacy systems and databases, improving processing speed by 45%.
- Implemented comprehensive data validation rules and quality checks to maintain accuracy and compliance with government regulatory standards and audit requirements.

Agrico Customer Information System | 615 Days

- Developed automated ETL solution enabling real-time customer and policy information updates directly from the extranet portal, reducing back-office processing effort by 30% and improving customer service response time.
- Conducted comprehensive business requirement analysis and gathered functional specifications from business stakeholders and IT teams.

- Created detailed metadata documentation for Oracle databases and file systems, establishing framework for implementing standardized ETL jobs in Talend.
- Designed and implemented robust exception handling and error logging workflows to ensure data integrity and provide enhanced service delivery to extranet users while minimizing operational disruptions.

APAR School Management System | 122 Days

- Developed comprehensive ETL processes to extract, transform, and load student information, academic performance data, and administrative records.
- Created integrated data warehouse to support school operations and reporting.
- Successfully deployed solution in production environment with zero downtime.

EDUCATION

Bachelor of Technology (B.Tech) in Engineering

GH Raisoni College of Engineering, Nagpur | Graduated 2017

CERTIFICATIONS



Qlik Talend Core Data Integration Developer - Certified

Issued by Qlik | Demonstrates expertise in Talend data integration, ETL development, and core platform capabilities

ADDITIONAL INFORMATION

Languages: English (Professional), Hindi (Native), Marathi (Native)