**Chiranjeevi Pasunuri**

**Data Engineer Architect**

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# SUMMARY

* **Data Architect with16+**years of experience in analysis, design, Development, implementation and testing of business application systems using various **ETL tools**like **Talend Data Fabric**and **Java** technologies**.**
* Extensive experience in ETL methodology for performing Data Integration,API integration, Data Migration,Extraction,transformation using Talend,ESB,Snowflake,AWS
* Expert in Various Agile methodologies like SCRUM, Test Driven Development (TTD), Incremental and Iteration methodology, Agile Development &Testing using Software Development Life Cycle.
* Sound knowledge on ETL and ESB tools like **Talend Data Fabric,CAMEL,Matillion,IIB,Muelsoft**
* Good experience on Proficient in designing, implementing, administration ,ETL architecture and functionality maintaining ETL workflows using Matillion
* Involved in the entire project life-cycle process from analysis, planning, designing, development, testing, debugging, and Deployment, Version Control and Production support of applications using the **JAVA/J2EE**technologies.
* Sound knowledge on Big data technologies like **Spark,scala,Hive,mapreduce,H-base**
* Good experience on orchestrating workflows with Apache Airflow
* Good hands on experience as **Tableau** reporting like creating different visualization like bars,pie,line charts
* Proficient in Talend and DBT, with a strong background in building ETL processes and data models
* Extensive experience in design and development of front-end user Interfaces using **XML, XHTML, DHTML, DOM, JSON.**
* Extensive experience with Frameworks in **Spring, ORM (Hibernate) and Spring (Spring MVC, Spring Context, Spring IOC, Spring AOP, JDBC, IO, Spring DAO, Spring ORM, Spring Data, Spring Boot, Spring Batch, Spring Security and RESTful)**.
* High experience in working with different databases such as **SQL**like **Oracle, RDBMS, DB2, SQL Server, MySQL,**etc. and worked on **NoSQL**databases like **Cassandra, MongoDB (Connectors, Drivers), Couch DB, Dynamo DB.**
* Experience with major databases such as **Oracle, DB2, MYSQL, PL/SQL**and **MS SQL**Server.
* Expertise in Mean Stack development using **Mongo DB, Angular, Express, Node.**
* Experience with integration services **OAUTH, OAUTH2.**
* Hands on Experience in using various **AWS**(Amazon Web Services) **Iaas**(Infrastructure as a Service) Components like **Amazon EC2, Amazon S3, Amazon simple DB, Amazon Elastic Load Balancing, Amazon SQS, Amazon EBS**and **Amazon cloud front, Elastic Cache, Dynamo DB, SQS, RDS.**
* Experience in deploying the **Microservices**using **Docker**container and ability to setup continuous integration and deployment pipeline using **Jenkins**with **GitHub**on **AWS**or any **Cloud Service**
* Proficient in leveraging Snowflake's Snow park for advanced data processing, including transformations using Python, Java, and Scala in Snowflake’s computing environment
* Expertise in architecting scalable and high-performance Snowflake environments on multi-cloud platforms. Strong knowledge in data modeling, ETL processes, and data migration
* Expertise in working with Snowflake for data warehousing and managing Snowflake Shares for efficient data sharing across environments
* Proficient in Talend and Erwin, with a strong background in data integration, database design, and data warehousing
* Proficient in working with IBM Netezza and Talend for data integration, migration, and analytics
* Sound knowledge on continuous integration tools like **Jenkins, Quick Build and Bamboo.**Automated the deployment process by integrating code repository using build pipe line for continuous deployment.
* Experience in configuring and setting up Microsoft Architecture based upon **Microsoft Azure PaaS**service.
* Experience in using code repository tools - **Tortoise SVN, Bitbuckets, CVS, GitHub, Spark and Visual Source Safe**and different Project management tools like **JIRA, Rally, and Microsoft Project.**

# TECHNICAL SKILLS

* **ETLTools:**Talend Data Fabric,ETL,ESB,Camel routes,TAC,TDM,MDM,DellBhomi,MuelSoft,Matillion,IIB
* **Programming Languages:**Talend**,** Java, Python
* **Big data Technologies:**Hadoop,Spark,pyspark,Hive
* **Orchestration Tools:** Apache Airflow
* **Distributed computing:**SOAP WS, Restful WS, JMS API, WSDL, JAXP, JAXB, JNDI and XML.
* **Databases:**Oracle 8i/9i/10g/11i, DB2, SQL Server, MYSQL, Mongo DB, Raven DB, IBM Netezza ,Cassandra, GoogleBig Querysnowflake
* **IDE Tools:**Eclipse, Visual Studio, IntelliJ, Spring Tool Suite, Sublime Text, WinSCP.
* **Web services:**JMS, MQ Series, SOAP, Rest, WSDL, JAX-RS and JAX-WS.
* **Design Methodologies:**UML, Rational Rose, Agile, SCRUM, TDD, XP.
* **Version control Tools & CI:**Git, Bitbucket, SVN, CVS, Clear Case, Jenkins, GitHub.
* **Testing Tools:**JUnit, Selenium, Mockito, and SOAP UI.
* **Frameworks:** Spring, Spring AOP, Spring Boot, DAO in Spring Frameworks, Angular, Hibernate (ORM)
* **Operating System:**Windows, Linux, UNIX, MAC, MS DOS.
* **Data Modelling:**Erwin
* **Project Management Tools:**JIRA, Rally, Microsoft Project
* **Messaging Services:**JMS, Active MQ, Rabbit MQ, IBM MQ, Apache Kafka
* **Cloud Platforms:** Azure, Amazon web services (S3, S3 Glacier, RDS, Lambda)
* **Data Transformation:**DBT, SQL
* **Snowflake Features: Snow pipe, Snowpark,Streams, Tasks, Data Sharing, Time Travel, Cloning**
* **Performance Tuning: Snowflake scaling, query optimization, clustering, partitioning**
* **Reporting Tools :** Tableau
* **AWS:** EC2, Auto scaling, Docker, IAM, VPC, SNS, Lambda, AWS SDK'S, Elastic cache, Ops Works, Security Groups, DNS, Route53, Cloud Formation, RDS, Dynamo DB, Storage Gateway, API Gateway, Cloud Watch

# CERTIFICATIONS

* **OCJP** (Java-8) certified professional
* **AWS** Certified Solutions Architect – Associate
* **Talend** Data Integration v8CertifiedDeveloper
* **Snowflake**SnowPro Advanced: Data Engineer Certification

#  Education

* Master of Computer Application **(MCA) -** Kakatiya University, India-2008

# Employment History

* Pyramid Technology Solutions**-Indianapolis,USA-**Senior Software Developer**-Aug-2024 -Till Date**
* Zaravya Informatics, Hyderabad India – Technical Lead – June 2021 to July-2024
* Artha Solutions, Hyderabad India – Technical Lead – March 2015 to May 2021
* Oxygen Networks Hyderabad India – Senior Software Developer – Aug 2010 to Jan 2015
* H-Line Soft Information Technology, Hyderabad India – Java Programmer – Aug 2008 to Jul 2010

# EXPERIENCE

**AWS Data Engineer-Snowflake-Talend-ETL**

AdvisingGenz

DATE**Aug-2024** to till date Location**Texas USARoles &Responsibilities:**

* Designed and implemented enterprise-level data warehouse solutions using Snowflake, migrating on-premise systems to Snowflake’s cloud-based architecture, ensuring performance, scalability, and cost efficiency.
* Led the integration of Talend Data Integration with Snowflake for ETL and ELT processes, designing data pipelines that ingest, transform, and load large-scale datasets into Snowflake.
* Architected Talend jobs to extract data from various sources (databases, APIs, SaaS platforms) and load them into Snowflake, utilizing Talend’s cloud and on-premise connectors.
* Implemented best practices for Snowflake architecture, including virtual warehouse sizing, query optimization, data partitioning, and clustering to enhance performance and reduce costs.
* Worked closely with BI and analytics teams to deliver optimized data models in Snowflake, creating star and snowflake schema designs tailored for reporting and analytics.
* Automated ETL pipeline management and orchestration using Talend Job Conductor and Control-M, ensuring timely execution of data processing tasks.
* Designed and implemented ETL pipelines using Talend for data extraction, transformation, and loading into Snowflake while leveraging Snow park for advanced data processing within Snowflake’s compute engine.
* Configured **Snowflake Shares** to enable seamless sharing of datasets between departments.
* Worked in the migration of data pipelines from Talend to DBT, improving data transformation efficiency
* Optimized Talend workflows and Snowflake queries, improvement in data processing speed and query executiontimes.

**Environment:**  TalendDataFabric,ETL,ESB,Nexus,Jenkins,Docker,Kafka,Logserver,pyspark,pythonscripting,redshift,snowflake,snowpipe,java8,Kafka,Webservices, Apache Airflow

**AWS Data Engineer-Snowflake-Talend-ETL**

Altium UK

DATE**July-2023** to **July-2024** Location **Offshore India**

**Roles &Responsibilities:**

* Built predictive models and performed data analysis using Python libraries (Pandas, NumPy, and Scikit-learn) to drive business insights and strategies.
* Developed Python scripts for data cleansing, transformation, and automation of data workflows, improving efficiency
* Utilized PySpark for feature engineering and data transformation on large datasets, enhancing model accuracy and efficiency.
* Created Talend DI jobs to process complex Salesforce data to target Snowflake data lake
* Created ESB web service to connect and retrieve Marketo,Mixpanel data using REST API
* Created Talend jobs to connect different source data like Mysql,Sqlserver,Redshift,AWS S3
* Created various snowflake views and CTE (Common Expression Table) to process complex data.
* Worked on SnowSQL and snow pipe COPY to, Secured PII data with snowflake Masking
* Created Snowflake internal and external stage and transformed data during load
* Worked on snowflake lateral FLATTEN views to read complex json files of VARIANT type data
* Worked with business analysts and stakeholders to understand data requirements and build Snowflake-based data models to support analytics and reporting needs.
* Designed and configured Talend jobs to extract data from diverse sources, transform it based on business rules, and load it into Snowflake’s staging tables, utilizing Snow pipe for automated, real-time data loading.
* Developed custom Snow park scripts using Python and Java within Snowflake to execute more advanced data transformations and business logic, enhancing data processing flexibility.
* Designed logical and physical data models using Erwin to support business intelligence initiatives.
* Utilized DBT for transforming raw data into actionable insights, implementing data models that improved reporting accuracy
* Utilized Erwin to create and maintain data models, ensuring compliance with industry standards
* Managed **Snowflake Shares** to provide secure data access across multiple business units and external partners.
* Monitored and tuned Snowflake queries to ensure optimal performance for reporting dashboards and ad-hoc analytics.
* Created and managed data pipelines using Apache Airflow, scheduling and monitoring workflows to ensure timely data processing and delivery.

**Environment**: Talend Data Fabric,ESB, Talend DI, TMC, GIT,REST API, Salesforce, Oracle, DBT,Snowflake,snowpipe, Redshift ,Java8,python scripting, PySpark, Hive, Apache Airflow, Erwin

Dell Boomi Data Engineer

MACOM

DATE**July-2022** to **June-2023** Location **Offshore India**

**Roles &Responsibilities:**

* Lead the design, development, and implementation of integration solutions using Dell Boomi for enterprise clients.
* Architected and deployed complex integration workflows, including API integrations, EDI solutions, and data synchronization between on-premises and cloud systems.
* Collaborated with stakeholders to gather requirements and translate them into technical specifications and integration solutions.
* Implemented best practices for Boomi process design, including error handling, performance tuning, andmonitoring.

**Environment** : Dell Boomi Integration and API Management,EDI,REDSHIFT, REST API, Kafka, Mongo DB, Apache Karaf,java8

**AWS Data Engineer-Snowflake-Talend-ETL**

NUPCO

DATE**June-2021** to **June-2022** Location **Offshore India**

**Roles &Responsibilities:**

* Developed various REST APIS to produce and consume using Talend ESB Routes
* Integrated 75 web service endpoints from various source to target (REST,SOAP,IDOC)
* Integrated SAP Hana IDOC receiving and storing using Mapping
* Processed various file formats like CSV, JSON, XML,SAP IDOC using Talend Data Mapper
* Integrated JKS configuration for SSL enabled interfaces
* Developed complex SQL queries for data analysis and reporting in Big Query, resulting in faster access to key business metrics
* Wrote Python scripts for data validation and error handling in ETL processes, reducing data discrepancies
* Worked closely with data architects and business analysts to gather requirements and design optimal data models in Netezza.
* Optimized Netezza queries and performed performance tuning to enhance database efficiency and reduce query time.

**Environment**: Talend ESB, Talend DI,python,TDM, Pyspark,REDSHIFT,REST API,SAP IDOC,Big Query, Apache Karaf, Netezza,Java8,TDC,Nexus

MatillionDeveloper/Administrator

LaheyHelathcare

DATE**July-2020** to **May -2021** Location**Offshore India**

**Roles &Responsibilities:**

* Designed and implemented ETL processes using Matillion to integrate data from multiple sources into snowflake DB
* Collaborated with data architects and analysts to understand data requirements and deliver solutions that meet business needs.
* Matillion ETL DEV, Configured QA,PROD instances;
* Administer and optimize Matillion environments, ensuring high availability and performance of ETL processes.
* Worked on implementing various environments like DEV,QA,PROD with Matillion infrastructure installations
* Worked on creating runtime multi cluster environment configuration in production
* Configured GIT,IAM,Project Management roles, user roles,Nexusruntime server configuration using ESB conductor and Job conductor
* Worked on Talend Matillion micro services deployment.
* Worked on configure and deploy of ESB runtime servers and cluster configuration
* Worked on OAuth configuration for ESB services.
* Worked on trouble shooting Matillion ESB production server issues
* Monitored and maintained ETL pipelines to ensure data accuracy and consistency.
* Participated in the design and implementation of data warehousing solutions, contributing to the overall data strategy.
* Generated reports and dashboards to provide insights into ETL performance and data quality.

**Environment**: Matillion ETL, AWS (Redshift), GCP Google Cloud Platform (Big Query), Snowflake

Talend AWS ETL/ESBDeveloper

Singapore Tourism Board

DATE**Jan-2020** to **june-2020** Location **Offshore India**

**Roles &Responsibilities:**

* Developed various REST APIS to produce and consume using Talend ESB
* Processed various file formats like CSV, JSON, XML using Talend Data Mapper
* Configured context from FTP file System
* Integrated STS token for SOAP web services.
* Developed Data Quality jobs to perform various business validations.
* Utilized Talend to migrate legacy data systems to Big Query, ensuring seamless data integration and access.
* Deployed jobs and routes using Talend Integration Cloud (TIC)
* Developed complex SQL queries for data analysis and reporting in Big Query, resulting in faster access to key business metrics.

**Environment**: Talend ESB, Talend DI, TDM, REST API, API Manager, MySQL, Apache Karaf,Big Query, Java8, TMC

Talend AWS ETL/ESBDeveloper

Parkway Hospitals Healthcare

DATE**July-2019** to **Dec-2019** Location **Offshore India**

**Roles &Responsibilities:**

* Developed REST and SOAP based web services using Talend 6.5 ESB mediation perspective
* Developed several HL7 Messages to XML mapping using Talend Data Mapper(TDM)
* Configured TCP to receive inbound messages to process and send to NEHR service
* Implemented Active MQ and JMS Queue to store and process all incoming messages
* Applied various business logics like Enrichment, sequencing, Delay process using java code.
* Deployed all services using Nexus snapshots and ESB runtime like apache Karaf.

**Environment**: Talend ESB, Talend DI, REST API, ActiveMQ, Oracle, Apache Karaf, Java8, AWS

Talend ETL/ESBDeveloper Univar Health Care

DATE**Jan-2018 to June-2019**  Location **Offshore India**

**Roles &Responsibilities:**

* Prepared Technical Design documents, work with Data Modeler to design data model
* Created DI jobs for generate web service payload from input excel files
* Created ESB web service provider services for various MDM operations like Mass Update
* Created ESB routes to lookup input files from FTP server and call the DI job
* Created Various provider and consumer ESB web services for MDM operations

**Environment**: Talend ESB, Talend DI, REST API, ActiveMQ, Oracle, Apache Karaf, Java8, Talend MDM

Talend ESBDeveloper Home Serve

DATE**March -2015** to **Dec-2017** Location **Offshore India**

**Roles &Responsibilities:**

* Developed web services based on Home Serve Web services policy document which lays out standards and security requirements.
* Developed WSDL, Schemas for various Operations under Services using Talend ESB Mediation.
* Implemented Routes for Services using Talend Mediation, deployed in Apache Karaf Runtime.
* Developed mapping logic using Talend Data Mapper for various request and responses

**Environment**: Talend ESB, Talend DI, REST API, ActiveMQ, Oracle, Apache Karaf, Java8

Senior Java Developer JP Morgan Bank

DATE **August-2010 to Jan-2015** Location **Offshore India**

**Roles &Responsibilities:**

* The application is built **Micro Service Oriented Architecture** using **MEAN4+ (Mongo DB, Express JS, Angular and Node.js)** stack and developed **Single Page Applications (SPA).**
* Designed and developed efficient user Interaction screens using **HTML5, CSS3-SASS** and **Twitter Bootstrap CSS** framework and **media queries** to create responsive web pages.
* Hands-on experience in **Azure Cloud Services** (PaaS & IaaS), Storage, Web Apps, Active Directory, Application Insights, and Logic Apps..
* Experience in **Confidential Azure** Cloud Computing development and support.
* Deployed Spring Boot based micro services **Docker container using Amazon EC2** container services and using AWS admin console.
* Involved in implementation of **MVC** pattern using **JSP** and **Spring Controller**and developed business objects using **Spring IOC, Spring MVC**and **Spring AOP.**

**Environment:** Spring MVC,Spring Boot, Angular Node JS, Apache Kafka, IBM MQ, Jenkins,, Mongo DB, , JBoss, Kibana, Elastic search, Log stash NPM, , Elastic Load Balancer, Docker, Apache tomcat, Selenium, JUnit, mock mvc, Kubernetes Swagger, Maven

Senior Java Developer Danaman Bank

DATE **August-2008** to **July-2010**Location **Offshore India**

**Roles &Responsibilities:**

* Involved various phases of Software Development Life Cycle **(SDLC)** of the application like requirement gathering, Analysis, Design and implementation using **agile methodologies.**
* Designed the user interface screen and its functionality as per user requirements and developed **Restful** Web services in **Mule ESB** based on Service Oriented Architecture (SOA).
* Developed dynamic web pages using **HTML5, CSS3, Bootstrap**and**AJAX**.
* The design uses Struts EJB based client specific frameworks. Online Banking Platform OBP Multi Channel Platform - MCP
* Worked with development team to design solutions, implemented client-side JavaScript tracking code in JSP web application using code library.
* Used React Fetch to make REST API calls and used Toaster to show info, warn and error notifications to the user.

**Environment:**  Hibernate, spring, Mongo DB, Spring Batch, Spring Boot, Spring Security, Servlet, XML, GIT, Spring MVC, JUnit, Maven, Web Services, Soap, Restful, Log4J, SOA, AWS, Micro Services, JIRA, Jenkins and STS.