

E ARJUN

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EXPERIENCE

Software Engineer

Spectra Solutions

Nov 2024 – Present

Bengaluru, Karnataka (Remote)

June 2026 – Present

Client Assignment: Tri Pointe Connect (TPC) — Contract Developer

- Data Engineering & Modeling:** Develop and optimize Snowflake data models, views, and complex SQL logic to support operational reporting and business intelligence.
- BI & Dashboard Development:** Build and maintain interactive Tableau dashboards for underwriter and loan processor performance, SLA tracking, resubmission trends, and drill-through analytics.
- Data Quality & Testing:** Validate Snowflake datasets against Tableau reports, investigate and resolve data discrepancies and missing values, and ensure reporting accuracy.
- Stakeholder Collaboration & Delivery:** Partner directly with client-side Application Managers via Microsoft Teams to gather functional requirements, conduct root-cause analysis on reporting issues, and support testing and release cycles.

Internal Products & GenAI R&D

Nov 2024 – May 2026

- GenAI / NL-to-SQL System:** Developed an AI-assisted analytics system using Llama 3.3 70B via Groq, Python, and Snowflake, with conversational context handling and RBAC-aligned access controls.
- Data Pipeline & Medallion Design:** Engineered Snowflake data pipelines using Streams, Tasks, Stored Procedures, and Views; contributed to Microsoft Fabric proof-of-concept pipelines using Lakehouse and Delta Tables.

Data Science Intern

Learnbay

Nov 2023 – Nov 2024

Bengaluru, Karnataka (Remote)

- Developed Python/SQL data cleaning workflows, exploratory data analysis (EDA), and interactive dashboards using Tableau and Power BI.

PROJECTS

AI-Driven Construction Bid Analyzer | Python, LangChain, LangGraph, GPT-4o-mini, Streamlit

- Developed an end-to-end RAG automation pipeline to extract and deduplicate unstructured multi-vendor bid data, reducing evaluation time by 70%.
- Built a real-time Streamlit dashboard featuring automated vendor scoring, savings analysis, and dynamic reporting for procurement decisions.

Snowflake Lineage Explorer | Python, LLM, SQL Parsing, Data Visualization

- Built AI-powered data lineage tool using LLM-assisted SQL parsing to resolve recursive dependencies and complex CTEs across enterprise data warehouses.
- Designed visual renderer that reduced manual documentation effort by 2-3 days per data asset, improving data governance workflows.

EDUCATION

Amrita Vishwa Vidyapeetham

Master of Technology (MTech) in Engineering Design

July 2020 – July 2022

Coimbatore, India

Vignana Bharathi Institute of Technology

Bachelor of Technology (BTech) in Mechanical Engineering

June 2015 – June 2019

Hyderabad, India

TECHNICAL SKILLS

Languages: Python, SQL

Data Warehousing and Cloud: Snowflake (Data Modeling, Views, Streams, Tasks, Stored Procedures), Microsoft Azure, Microsoft Fabric, Delta Lake, Lakehouse Architecture

Generative AI: LangChain, LangGraph, CrewAI, LLMs (Llama, GPT-4, Gemini), RAG Pipelines, NL-to-SQL Systems, Prompt Engineering

BI and Visualization: Tableau (LOD Expressions, SLA Dashboards, Drill-throughs, Calculated Fields), Power BI

ETL and Data Integration: Talend, Data Pipelines, ETL Workflows

Backend & App Frameworks: FastAPI, Streamlit

AWARDS & RECOGNITION

- Best Employee of the Year 2025 – Spectra Solutions:** Recognized for ownership, research excellence, and reliability; received cash prize and public endorsement from founder.