AJITH SURAPARAJU

(Data Engineer)

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SUMMARY OF QUALIFICATION

- Certified AWS Data Engineer and Azure Data Fundamentals professional with strong skills in Python, SQL, and cloud platforms.
- Experienced in designing automated data pipelines and optimizing database performance, handling extensive data sets efficiently.
- Proficient in Snowflake, Databricks, and AWS services, with a track record of enhancing data processing efficiency.
- Adept at collaborating with cross-functional teams to deliver data-driven insights and decision-making processes.

CERTIFICATION

AWS Certified: Data Engineer Associate — Sep 2024
Microsoft Certified: Azure Data Fundamentals — May 2024

TECHNICAL SKILLS

- Python
- SQL
- NoSQL
- GitHub
- Apache Spark
- Hadoop
- Hive
- Databricks
- Snowflake
- MongoDB
- Teradata
- Apache Kafka
- Power BI
- AWS Services
- Azure Services

PROFESSIONAL EXPERIENCE

People Tech Group Inc. — **Redmond, Washington**

Data Intern — August 2024 - Present

- Designed and implemented automated data pipelines capable of processing millions of data points, ensuring high efficiency and reliability.
- Worked closely with Business Analysts, Data Scientists, and other internal teams to identify and solve key data challenges, contributing to business-driven decision-making.
- Improved database and data warehouse performance by tuning inefficient queries, leading to faster data retrieval and optimized resource usage.
- Monitored and troubleshooted operational and data issues in the pipeline, providing root cause analysis and implementing long-term solutions to prevent future defects

Vega Techno Systems — **Pune, India**

Data Pipeline Optimization Specialist — May 2021 – July 2022

- Managed and optimized database instances on AWS EC2 and RDS, improving query performance by 30% through caching strategies and tuning indexes.
- Designed and implemented secure views and row-level access policies in Snowflake, leading to a 25% reduction in query execution time and a 20% improvement in storage efficiency.
- Automation and Data Migration: Automated database tasks using Python scripts, reducing manual intervention by 40%, and implemented data migration strategies using AWS services, streamlining cloud data management.
- Security and Compliance: Implemented security measures, including user access controls and data encryption, ensuring 100% compliance with industry regulations,

Vega Techno Systems — **Pune, India**

ETL Process Engineer — August 2020 – May 2021

- Designed and managed data pipelines using Python, PySpark, and SQL, processing over 5 million records from both batch and streaming sources. Achieved a 30% reduction in processing time by optimizing ETL workflows.
- Leveraged AWS services like AWS Glue, AWS Lambda, and Amazon S3 to develop scalable data solutions, resulting in 40% cost reduction for data storage and processing while handling 2 TB of data per week.
- Built and optimized a data warehouse using Amazon Redshift, enabling the company to reduce query latency by 50% and support data-driven decision-making across 5+ business units.
- Tuned database queries and infrastructure to improve data processing efficiency by 25%, ensuring the pipelines processed millions of records within minutes and met SLA targets consistently.

ACADEMIC PROJECTS

Data Engineer (Graduate Assistant) — **Indiana, USA**

- Deployed a data engineering solution using Cloud technologies, improving access to historical athletic records by 50%.
- Enabled data-driven decision-making for game preparation, boosting the team's success rate by 30%.
- Created intuitive data visualization dashboards that improved performance insights and reduced meeting times by 20%.

EDUCATION

Indiana Wesleyan University	**MS in Information Systems. GPA: 3.93**	October 2022 – April 2024
Sri Venkateshwara University	**BS in Electronics and Communication Engineering. GPA:3.15**	August 2016 – May 2020