RAHUL S PATIL

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WORK EXPERIENCE

Senior Software Engineer | Cowbell Cyber, Pune   September 2023 – Present

- Redesigned Cowbell's cyber risk scanning system, developing Scanner V2 to enhance domain & asset assessments.
- Architected an asynchronous, parallelized system with 10,000 EKS pods, scaling up to 1 million concurrent scans.
- Improved efficiency: Reduced development time from 2 weeks to 1 day per scanner, increased capacity from 7K to 100K scans/day, and cut costs from $10K to $2K.

Advisor | Data Engineering | Dell Technologies | Hyderabad   Jan 2023 – September 2023

- Led the development of "Sherlock", an automated ETL pipeline exporting high-volume data from Greenplum Data Lake to Azure Blob Storage.
- Optimized data processing using PySpark in Databricks, enabling secure external access through row- & column-level security.
- Managed daily 200GB exports, ensuring seamless transfers & implementing monitoring metrics for performance tracking.

Senior Data Engineer | Data Engineering | Dell Technologies | Hyderabad   Jan 2021 – Jan 2023

- Developed "Watson", a scalable data validation system ensuring high-quality data processing from multiple sources.
- Reduced error rates by 95% through an automated validation engine that flagged inconsistencies & provided real-time feedback.
- Built a real-time dashboard for data validation tracking, error analysis & system performance monitoring.

Data Engineer | Data Engineering | Dell Technologies | Hyderabad   July 2019 – Jan 2021

- Developed & managed 100+ ETL pipelines handling petabyte-scale data ingestion via Streamsets, Kafka, and Airflow.
- Processed 500GB+ daily from Oracle, CSV, SQL Server, JSON, leveraging Medallion Architecture (Landing Zone, Common Data Layer, Reporting Data Layer).
- Automated workflows with Airflow, providing real-time monitoring & alerting for data pipelines.

EDUCATION

Liverpool John Moores University - **Masters in Data Science**   Dec 2023 – Dec 2024

International Institute of Information Technology - **Executive PG (Data Science)**   May 2023 - Dec 2024

Symbiosis International University - B.Tech in Computer Engineering   May 2015 – May 2019

TECHNICAL SKILLS

Big Data & Databases: PostgreSQL, Aurora (AWS), Redshift, Teradata, Greenplum, Snowflake, ElasticSearch

ETL & Data Engineering: Streamsets, Apache Airflow, Kafka, Redis, Kinesis Streams, Databricks, PySpark, Apache Spark, SQL, AWS Lambda

Cloud & DevOps: AWS (S3, EC2, Lambda, RDS, EKS, IAM, Networking), Azure, Kubernetes, Docker, ArgoCD, Terraform, GitHub Workflows, Komodor

API Development & Microservices: FastAPI, Flask, GraphQL, WebSockets

Artificial Intelligence & Machine Learning: LLMs (OpenAI, LLAMA), Retrieval-Augmented Generation (RAG), Regression, Classification, NLP, Text Embedding, SQL Agent, Autonomous Agents

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CERTIFICATES & AWARDS

Azure Certified Data Scientist   Sep 2021

Dell Game Changer Award (2021, 2022, 2023)

Dell Shark Tank Winner   May 2023