

Uday Kumar Padirla

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SKILLS

Programming Languages: Python, SQL, MySQL, Java, C, C++, JavaScript

Cloud Platforms & Workflow Orchestration: Azure (Databricks, Data Factory, Synapse Analytics, SQL Database, Blob Storage, Data Lake, Functions, Event Hubs), AWS (S3, Glue, Redshift, Lambda, Athena, Kinesis, EMR, DynamoDB, RDS, DMS, Step Functions, CloudFormation), CI/CD Pipelines, Azure DevOps, SSIS, SSRS, Airflow, Git/GitHub, Docker

Data Engineering & Analytics Tools: ETL/ELT pipelines, Snowflake, dbt, SSMS, Pandas, PySpark, Data Modeling, Data governance, Power BI, Tableau, Streamlit, Machine Learning.

EXPERIENCE

Cellular World LLC

Miami, FL

Data Engineer

Jan 2025 – Present

- **Independently designed and developed a full-stack Warehouse Inventory Management System**, leveraging AI for enhanced functionality, while implementing **industry-standard security, comprehensive features, and robust backend support**.
- **Partnered with business stakeholders and senior executives** across sales and operations to gather requirements for ingesting 10M+ sales records from RDBMS and CRM systems into **Amazon S3 using AWS DMS, Glue, and Kinesis Data Streams**, ensuring data pipelines aligned with **executive reporting, compliance, and strategic business needs**.
- **Partnered with finance teams** to analyze **revenue, expense, and profitability** data from multiple systems, creating financial performance dashboards and KPI reports that provided executives with actionable insights for **budgeting, forecasting, and strategic planning**.
- **Collaborated with QA and product teams** to define validation criteria and exception handling rules, then developed a monitoring and alerting framework using **AWS CloudWatch, Step Functions, and Airflow**, reducing downtime and failed jobs by **40%**.
- **Documented technical and functional requirements** for a high-performance **Snowflake data warehouse** (medallion architecture, clustering keys, micro-partitions) and worked with reporting teams to cut report generation time from **60 minutes to 15 minutes**.
- **Gathered BI requirements** from finance and operations leaders to design **incremental Snowflake models (dbt, SQL)** and delivered interactive **Power BI** dashboards using **advanced DAX** measures along with Streamlit **dashboards** for 300+ users, driving real-time KPI tracking and data-driven decision-making.

Florida International University

Miami, FL

Analyst, TA

Aug 2024 – Dec 2024

- **Analyzed 30+ student software design reports** using standardized rubrics and tools like **Python, SQL, and Excel** to identify performance trends, recurring gaps in design comprehension, and actionable insights.
- **Delivered data-driven summaries** to the professor, enabling targeted lecture adjustments and refined assignment structures to enhance learning outcomes.

Infosys Limited

Hyderabad, India

Data Engineer

Oct 2021 – Dec 2022

- Led end-to-end **ETL architecture on Azure**, ingesting 10+ on-premises and SaaS data sources using **Azure Data Factory** into ADLS Gen2, increasing raw data availability by 50% in an **Agile development** environment.
- Developed scalable, modular PySpark pipelines on **Azure Databricks** processing 500 GB/day with Delta Lake for ACID compliance, reducing job failures by 40% and ensuring data reliability.
- Proficient in writing and optimizing **complex SQL queries** and developing **Python scripts** to extract, transform, and analyze large datasets, supporting reporting, analytics, and end-to-end data pipeline workflows.
- Implemented automated CI/CD pipelines using **Azure DevOps**, deploying Databricks notebooks, Data Factory **ARM templates**, and SQL schema migrations, accelerating release cycles from weeks to days.
- Partnered with finance and ops teams to build **Power BI dashboards** by optimizing Azure SQL with partitioned tables and indexed views, cutting manual reporting by 50% and boosting data-driven decisions.

Sysdoc Technologies Private Limited

Hyderabad, India

Data Engineer

Mar 2020 – Oct 2021

- Built scalable data pipelines using **Azure Data Factory** to ingest data from SQL Server, flat files, and APIs into Azure Data Lake Storage Gen2, improving accessibility for analytics by 40%.
- Engineered and fine-tuned **complex SQL queries** for Azure SQL Database and **Azure Synapse Analytics**, enhancing data retrieval performance for analytics and reporting by 30%.
- Monitored and troubleshooted ETL jobs in Azure Data Factory and **Databricks**, ensuring 98% uptime and resolving data quality issues across critical data pipelines.

EDUCATION

Master of Computer Science , Florida International University	<i>Dec 2024</i>
Coursework: Algorithms, Machine Learning, Data science, Software Design, Database Systems.	
Bachelor of Technology , Jawaharlal Nehru Technological University	July 2021
Coursework: C, Java, Algorithms, Python, Data science, Software Design, Data Mining.	

RESEARCH AND PUBLICATIONS

Published in IEEE International: ["Identification Of Fake News Using Deep Learning Architecture."](#)