

# Amal K

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## Summary

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Results-driven Data Engineer with 4 years of experience designing, developing and optimizing data pipelines, ETL processes, and data architectures. Skilled in building scalable data pipelines, ETL processes, and cloud architectures (Azure). Proficient in Python, SQL, Spark, and Kafka, with expertise in data warehousing and real-time streaming. Passionate about optimizing performance and delivering high-impact analytics solutions.

## Professional Experience

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### Tata Consultancy Services

#### Data Engineer

2024–Present

- Designed and optimized ETL pipelines to ingest and transform data from multiple sources, including MongoDB, PostgreSQL, Cosmos DB, and SFTP.
- Enhanced data ingestion frameworks, reducing processing time and improving scalability.
- Led data migration initiatives to support campaign and promotional analytics.
- Leveraged Azure Data Factory, Databricks, and Delta Lake for scalable data processing and storage.
- Implemented secure data management using Azure Key Vault and Application Configuration.

### Tata Consultancy Services

#### Data Warehouse Engineer

2023–2024

- Developed and managed ETL pipelines for large-scale data warehouses within Azure.
- Implemented data cleansing, transformation, and enrichment strategies.
- Monitored and orchestrated 30+ data pipelines using Azure Data Factory and Databricks.
- Designed proactive monitoring solutions to detect anomalies in data quality.
- Enforced security policies and optimized cloud-based storage.

### Tata Consultancy Services

#### Technical Support Executive

2021–2023

- Conducted root cause analysis for recurring technical issues.
- Automated troubleshooting processes, reducing ticket volume by 90
- Developed standard operating procedures for issue resolution.
- Provided consulting and support for infrastructure upgrades.
- Recognized with multiple performance awards (Star of the Month 6x, Award of Excellence 3x).

## Education

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### Kerala, India

#### Bachelor of Technology in Computer Science

Government College of Engineering, Kannur

2020

## Key Skills

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**Data Engineering:** ETL, Data Warehousing, Data Pipelines, Data Migration

**Cloud & Big Data:** Azure Data Factory, Databricks, Delta Lake, Azure Key Vault

**Databases:** MongoDB, PostgreSQL, Cosmos DB, SQL Server

**Programming:** Python, SQL, Spark

**Security & Optimization:** Data Governance, Cloud Security, Performance Tuning