



SUMMARY

A Master's student in Computer Science with a focus on data engineering, offering practical experience in developing and managing data pipelines and cloud-based data warehousing solutions. Skilled in leveraging AWS, Python, Kafka, and Spark to build scalable data systems.

EDUCATION

University of North Carolina at Charlotte, NC, USA

Aug 2022 - Dec 2023

Master of Science - Computer Science in Data science

WORK EXPERIENCE

Data Engineer

Client: United Airlines, TX

Feb 2024– Present

- Designed and implemented data ingestion solutions using **Hadoop, MapReduce, HBase, Hive, Spark, AWS S3, AWS Lambda, DynamoDB, EMR, Redshift**, and server management **APIs**.
- Engineered scalable multi-tiered web services using **Java** and **MongoDB**, achieving a data processing throughput increase of 30% while managing deployment with **Docker** and **Kubernetes** for improved operational efficiency.
- Orchestrated the development of real-time data dashboards in **Tableau**, empowering over 15 team members to access key metrics instantly enhanced decision-making capabilities across departments by providing actionable insights utilizing **Python, SQL, Scala, Snowflake** and **Spark**.
- Designed and optimized 15+ **data models** and **warehousing** solutions, developed and maintained 30+ **ETL pipelines** in **SQL**, and implemented secure data access platforms, resulting in a 40% improvement in reporting efficiency
- Proficient in **relational** and **non-relational databases**, object-oriented scripting (**Python, SQL, TypeScript, Java**), and **REST APIs**, with a track record of collaborating on **AI** and **ML** projects that drove cross-functional team of **10+ members** to drive innovation and achieve project milestones.

Data Engineer

Client: Varky Technology Solutions, HYDERABAD, India

Mar 2020 – Jun 2022

- Developed and optimized 25+ data pipelines using **AWS, Python, SQL**, and **Apache Spark**. Skilled in **Snowflake** in cloud-based warehousing and **Kafka** for real-time data streaming, improving data processing efficiency by 35%.
- Orchestrated 40+ **data workflows** using **Azure Data Factory (ADF)** and **Airflow**, automating integration and transformation processes to enhance data pipeline efficiency by 30%.
- Utilized AWS technologies (**Redshift, S3, Glue, EMR, Kinesis, Firehose, Lambda, IAM**) for scalable data architecture, and Engineered solutions using non-relational databases (object storage, document/key-value stores, graph databases) resulting in a 35% improvement in query performance
- Enhanced application and query performance by 25% using profiling tools and **SQL**, while implementing best practices in **data integrity**, analysis, and **documentation** to ensure robust and reliable **data management**.

PROJECTS

COVID 19 Big Data Analysis

- Outlined and managed data engineering solutions using **Azure Data Factory, Data Lake Gen2, Blob Storage**, and **Databricks**, including pipeline integration and complex control flows.
- Applied and monitored **ADF pipelines** with **Azure Monitor**, configured **CI/CD** processes using **Azure DevOps**, and managed **scheduling** and **debugging** for data transformations, resulting in a 20% reduction in deployment time and increased pipeline reliability.

Malaria identification using a neural network

- Originated and executed a **CNN** model analyzing 10,000+ blood microscopy images, reducing detection time by 40% for lab technicians.
- Leveraged **deep learning** for automated feature **extraction**, boosting diagnostic accuracy by 30% and addressing complex challenges.

Publications

Malaria Identification in neural networks paper published in journal of engineering sciences

TECHNICAL SKILLS

Programming Languages: Java, Python, C, Scala

Databases: MySQL, MongoDB, PostgreSQL, NoSQL

Data warehousing: Snowflake, Amazon Redshift

Bigdata Tools: Apache spark, Kafka, Datalake, Hadoop

IDE & Build Tools: Eclipse, Jupiter Notebook, Visual Studio

Cloud & DevOps Tools: AWS, Azure, Docker, Kubernetes, Azure Devops

ETL: Talend, Apache Airflow, Aws Glue

Visualization Tools: PowerBI, Tableau

Data Integration: Rest APIs, Web Services

Operating System: Unix, Linux, MacOS, Windows

Other:Git, GitHub, Bitbucket, Agile, Scrum

Certifications

- AWS certified cloud practitioner
- Azure Databricks attested apache associate spark developer
- Azure Databricks licensed lake house fundamentals
- Udemy accredited in Snowflake master class
- Machine learning in Python (IBM issued)
- PET and BEC certified in English (Cambridge issued).