

Ranjith Kumar D

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Education

University of Central Missouri

Master of Computer Science

Apr 2021 – Aug 2022

Warrensburg, MO

Relevant Coursework

- | | | | |
|----------------------|---------------------------|-------------------------|------------------------|
| • Data Structures | • Data Visualization | • Internet Technology | • Financial Analytics |
| • Business Analytics | • Database Management | • Systems Programming | • Advanced Excel |
| • Big Data | • Artificial Intelligence | • Computer Architecture | • Software Methodology |

PROFESSIONAL SUMMARY:

- Dynamic and motivated IT professional with around 5+ years of experience as a Big Data Engineer with expertise in designing data-intensive applications using Hadoop
- Ecosystem, Big Data Analytical, **Cloud Data Engineering, Data Warehouse / Data Mart, Data Visualization, Reporting, and Data Quality solutions.**
- Strong experience working with Bigdata Hadoop ecosystem components like **HDFS, Map Reduce, Spark, HBase, Oozie, Hive, Sqoop, Pig, Flume, Kafka, and Airflow.**
- Expertise in developing production-ready Spark applications utilizing **Spark-Core, Data Frames, Spark-SQL, Spark-ML and Spark-Streaming APIs**
- Good experience working with **AWS Cloud** services like **S3, EMR, Lambda, Redshift, Athena, Glue** etc.,
- Good understanding of **NoSQL** Databases and hands-on work experience in writing applications on No SQL databases like **Cassandra and Mongo DB.**
- Familiar with data architecture, including data ingestion pipeline design, Hadoop information architecture, **data modeling and data mining, machine learning** and advanced data processing. Experience optimizing ETL workflows.
- Proficient in Python Scripting and worked in stats function with **NumPy, visualization** using **Matplotlib** and **Pandas** for organizing data.
- Knowledge in installation, configuration, supporting and managing **Hadoop Clusters** using Apache, Cloudera (CDH3, CDH4) distributions and Amazon web services (**AWS**).
- In-depth understanding/knowledge of Hadoop Architecture and various components such as HDFS, MapReduce Programming Paradigm, High Availability and YARN architecture.
- Experienced in working with **Amazon Web Services (AWS)** using **EC2** for computing and **S3** as storage.
- Capable of using AWS utilities such as **EMR, S3** and cloud watch to run and monitor Hadoop and spark jobs on Amazon Web Services (AWS).
- Strong knowledge in working with Amazon **EC2** to provide a complete solution for computing, **query processing**, and storage across a wide range of applications.

Technical Skills

Hadoop Components	HDFS, Hue, MapReduce, Hive, Sqoop, Impala, Zookeeper, Flume
Spark Components	Spark RDD, Data Frames, SparkSQL, PySpark, Spark Streaming, Spark ML
Databases	Oracle, Teradata, Microsoft SQL Server, MySQL.
Programming Languages	Java, Python, Scala.
Cloud Services	AWS S3, EMR, Redshift, Glue, Lambda, Step Functions, Athena, GCP Dataproc, Big Query, Nifi, Snowflake
IDE	Eclipse, IntelliJ IDEA, PyCharm
NoSQL Databases	HBase, Cassandra, MongoDB.
Release Management Tools	Jenkins, Maven, SBT, GitHub, Jira
Development methodologies	Agile/Scrum

Experience

Capital One

Big Data AWS Engineer

May. 2022 – Present

Virginia, USA

- Design and maintain well-structured relational database Schemes. Create automated **ETL pipelines** for a variety of raw manufacturing data sources. Research and develop new data storage architectures for growing data volumes
- Designing a resilient framework using **Amazon Web Services**, which involves reading/streaming data from the producer/Source through the **Apache Kafka** process to ingest the data to Client specific cloud storage location (**S3**). House, data validation tool is integrated to take care of data quality checks. Setting up notification service through **Amazon SNS (Simple Notification Service)**, which in turn triggers **AWS Lambda** function to pick the data from one **S3** to a Centralized S3 location.
- The data load framework is being used to load the data from **S3 location** to the Cloud **Snowflake Data warehouse**. Ensure appropriate services and effective design in a cost-effective method.
- Intake Business managers/product owner request their strategies and future vision and turn those business requirements into **data visualization** products using the **Tableau** Business Intelligence Data **Visualization** tool.
- Created DataStage jobs using different stages like Transformer, **Aggregator, Sort, Join, Merge, Lookup, Data Set, Funnel, Remove Duplicates, Copy, Modify, and Filter. Change Data Capture, Change Apply, Sample, Surrogate Key, Column Generator, Row Generator Etc.,**
- Expertise in Creating, Debugging, Scheduling and Monitoring jobs using **Airflow** for ETL batch processing to load into **Snowflake** for analytical processes.
- Worked in building **ETL pipeline** for data ingestion, data transformation, and data validation on cloud service AWS, working along with data steward under data compliance.
- Worked on scheduling all jobs using **Airflow** scripts using python and added different tasks to **DAG** and **LAMBDA**.
- Experience in Developing **Spark applications using Spark - SQL** in **Databricks** or data extraction, **transformation**, and **aggregation** from multiple file formats for analyzing & transforming the data to uncover insights into the customer usage patterns.
- Performed data storage on **AWS S3**, and defined **MapReduce** jobs in multi-node Hadoop clusters on AWS **EMR** and **EC2**
- Developed ETL pipelines to ingest data to **AWS RDS** for data processing, data analysis using AWS Glue and

AWS Athena, and **data warehousing** and visualization using **AWS Redshift** and **AWS QuickSight**

- Upkeep AWS Kinesis pipelines to process near real-time server logs, analyze data with **AWS ElasticSearch** and populate data in **AWS DynamoDB** using **AWS Lambda**
- Developed and implemented ETL pipelines using Python, SQL, Spark and PySpark to ingest data and updates to relevant databases

University of Central Missouri

Power BI Developer

May, 2021 – Jun 2022

Reality Studio, UCMO

- Extensive data cleansing and analysis, using pivot tables, formulas (v-lookup and others), **data validation**, conditional formatting, and **graph** and **chart** manipulation. Facilitate program and project meetings. Prepare and facilitate weekly
- PMO meetings; captured meeting decisions and content into Excel-based tracking logs.
- Involved in creating **MDX**, **DAX**, Cubes and Tabular models using **SQL Analysis Services (SSAS)**. Used different types of **visualization (Stacked bar Chart, Clustered bar Chart, Scatter Chart, Pie Chart, Donut Chart, Line & Clustered Column Chart, Map, Slicer etc.)** in Power BI according to the requirements.
- Conduct quality assurance activities regarding data migration and folder permissions. Adhere to and communicate Records Management procedures to customers. Perform SharePoint administration for the team.
- As Dashboard Developer, Primary activities included designing a technology roadmap for Power BI; product installation and implementation development of insightful dashboards; serving as **SME** point of contact for Power BI and delivery of solutions adhering to BI industry best practices
- Implemented metrics, filters, reports, and dashboards and created advanced chart types, using calculations to manipulate the data and enable user-driven parameters for visualizations and drilled down the level of detail using sets

INTELLECT TECH

Data Engineer

Mar 2019 – Feb 2021

Hyderabad, India

- Expertise in designing and deploying **Hadoop clusters** and different Big Data analytic tools, including **Pig, Hive, HBase, Oozie, Sqoop, Flume, Spark, and Impala**.
- Effectively use metrics and data visualization to report progress and support data-driven decision-making at the team or organization level. Perform structural modifications using **Map - Reduce, HIVE** and analyze data using visualization/ reporting tools.
- Effectively use metrics and data visualization to report progress and support data-driven decision-making at the team or organization level. Perform structural modifications using **Map - Reduce, HIVE** and analyze data using visualization/ reporting tools.
- Worked on importing data from **MySQL** DB to **HDFS** and vice-versa using **Sqoop** to configure **Hive** metastore with **MySQL**, which stores the metadata for Hive tables.
- Collaborated with team members using version control systems such as Git to organize modifications and assign tasks.
- Imported data from sources like different logs, **API's**, and databases like **MySQL, Neo4**), **Cassandra**, and **DynamoDB** to understand the customer behavior and make the necessary reports as per client requirement
- Worked on **Python / Scala APIs** to get data from **DynamoDB, MYSQL**, and **Cassandra** and loaded it into **Databricks** for further analysis
- Loaded python scripts into **AWS S3, DynamoDB** and **Snowflake** to read CSV, JSON and parquet files from S3 buckets

- Extracting data with **Apache Kafka** and using Scala for converting the distributed collection of data organized into named columns, developing predictive analytics using **Apache Spark Scala APIs**
- Importing data from S3 into **AWS Glue** to perform the ETL operations and store the data into **Redshift**
- Involved in converting **Hive / SQL queries** into Spark transformations using **Spark RDDs** and **Scala**
- Developed Scala scripts, UDF's using both data frames / SQL and RDD in Spark for data aggregation, queries and writing back into S3 bucket

CERTIFICATIONS

- Advanced Excel Skills for Business.
- Machine Learning, by Andrew Ng.
- Deep Learning, by Andrew Ng.
- IBM Data Engineering.

Extracurricular

International Student Organization(UCMO)

Vice president

Jun 21 – Present

University of Central Missouri

- Work with the zone chairperson to ensure every club in your zone operates efficiently and follows the Association's Constitution & Bylaws.
- Discuss ways of helping clubs that need assistance with membership growth or leadership development.
- Promote various club functions and events, such as inter-club meetings, installation of club officers, induction of newmembers, or ceremonies honoring Key Award recipients.