Vijay Kumar

+91 8239886299| E-Mail | LinkedIn

Education

Indian Institute of Technology, Delhi 7.03/10
Bachelor of Technology in Electrical Engineering *July 2019 – 2023*

Vidhur Navodya Sr Sec School, Kota 87.00 %
Class XII *April 2017 – April 2018*

Work Experience

Software Engineer | *Jio PLatforms Limited, Mumbai* Aug 2023 - Present

Extract Transform Load Tool

- integration of storage accounts like Azure GCP bucket and AWS s3 as database sources for tool
- enhancement of the pre-existing ETL with the iteration functionality with also enables user to dynamically replace the variables
- Column rename feature in the ETL tool which enables the user to rename the column names in various formats with prefix post fix and regular expressions
- feature addition of join/union/intersection with the help of recursive function that allows user to read multiple databases in one go and simplifies the task

Spark Libraries and Data Migration

- added the spark streaming for the live streaming of data wiich removes the latency of minutes to the nearly real time data processing
- spark jobs configuration with YAML file in Kubernetes cluster memory driver executor and various dynamic aspects
- worked on various features like filter, parsing, DML execution, re-partition etc

Neo4J Graph Database

- implemented a topological graph with the help of Cypher query language
- reading data from elastic search into spark dataframe applying spark sql joins and writing it to neo4j data base
- for performance tuning used spark sql aggregation improved data quality to execute the flow over 80 million entries every day

Light Weight ETL

- Improving the resource utilisation with a new tool creation for small level data migration at client premises
- replication of the Scala Spark ETL tool into python module that runs on local system and effieient for small data migrations
- for performance tuning used spark sql aggregation improved data quality to execute the flow over 80 million entries every day

Projects

Dynamic Memory Allocator | *Prof. Rahul Garg* | *Course Project* 2020

- Developed an efficient JAVA based system to allocate/free memory as per requirement using linked lists and trees
- Implemented Doubly Linked List data structure using First Split Fit algorithm to track free and allocated memory
- Implemented Best Split Fit algorithm to optimally perform allocate and free operations while minimizing fragmentation

Graph Topology Analysis | *Prof. Rahul Garg* | *Course Project* 2020

- Implemented bi-directed graph using two csv files having data regarding storylines of characters in Marvel comics.
- Implemented DFS on the graph to generate independent storylines by utilizing Hash-Map and Array-List data structures

Technical Skills

Languages: C++, Scala, SQL, Cypher, Python, Java, Matlab

Softwares, Libraries, Tools, and Frameworks: Spark Core, Spark SQL, Spark Streaming, Neo4J, SQLDeveloper, Kubernetes, Kafka, ElasticSearch, Git/GitHub, VS Code, IntelliJ, MATLAB, Octave, Microsoft Office