Adarsh Raghupati

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Education

The University of Texas at Dallas, Richardson, Texas	December 2020
Master of Science in Computer Science	GPA 3.7

Sri Jayachamarajendra College of Engineering, Mysore, India	May 2016
Bachelor of Information Science and Engineering	GPA 8.79/10

Computer Skills

Languages: Java, Perl script, HTML, JavaScript
Databases: PostgreSQL, Azure SQL, MariaDB, Vertica
Framework and Tools: Spring Boot, Spark, ReactJS, Maven, Git, Apache Kafka, Kubernetes, Docker, Oneops, Apache Flink

Work Experience

Software Engineer Intern, Walmart Global eCommerce   Jun'20 – Aug'20

- Designed and developed a generic service which exposes Kafka and HTTP endpoints for supplier ecosystem to track operational, business and user interaction metrics
- Provided an intuitive interface to visualize datasets and create interactive dashboard which helps to gain actionable insights and take strategic decisions.

Software Engineer, Micro Focus (Formerly known as HPE), Bangalore, India   Aug'16 – Jun'19

- Developed scalable data ingestion microservice to handle a high volume of data from multiple sources.
- Implemented analytical services such as moving average and central thresholding which enabled clients to maintain high business service levels by quickly resolving critical product issues.
- Designed an algorithm to store and retrieve hierarchical topology data efficiently in a columnar database like Vertica.
- Implemented data retention policies to reduce the cost of storage space while retaining helpful information.
- Improved query performance by 30% by running the query plan, defining optimal partitioning and segmentation.
- Developed containerized microservices for the unified big data platform called Intelligent Data Lake.
- Contributed to CI/CD process (Continuous integration, Continuous Delivery and Deployment) in a scaled agile environment.

Projects

Sentiment Analysis of Tweets using Spark Streaming   Spring 2020
Technology: Spark, Kafka, Kibana, Twitter API
- Made use of twitter APIs and spark streaming to fetch and filter real time tweets.
- Analyzed the subjectivity and polarity of covid-19 related tweets.

Comparison study of Red-Black Tree and Skip Lists   Spring 2020
Technology: Java
- Implemented red-black tree and skip lists to support various operations like add, remove, contains, get, ceiling etc.
- Analyzed the performance of two data structures for very large input sizes such as 16M, 64M, 256M

RESTful Web Application to Visualize Realtime and Historical Stock Data   Fall 2019
Technology: React, NodeJs, AlphaVantage APIs
- Designed and implemented a responsive website and scalable web application based on service-oriented architecture.
- Visualized historical and real-time stock data using third party api.

Micro Focus Hackfest   Nov 2018
Technology: FlinkML, Kibana, Kafka
- Secured second place for implementing unsupervised learning on streaming data.
- Used k-Nearest neighbor algorithm to cluster the stream of log data.