

ABHILASH BHAKTARAHALLI SUBRAMANYA

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EDUCATION

University of Southern California - Los Angeles, USA
Masters of Science in Computer Science, GPA - 3.90/4.00

Aug 2021-May 2023

Relevant Coursework: Database systems, Foundations of Data Management, Algorithms Design, Operating System

BMS College of Engineering - Bengaluru, India
Bachelor of Engineering in Computer Science, GPA - 9.33/10.00

Sep 2014-May 2018

WORK EXPERIENCE

Senior Data Engineer (Part-time)
Samsung Research America (WorldLink), USA

Sep 2022-Feb 2023

- Conducted data analysis on event datasets for data understanding and having metrics to debug Flink applications
- Evaluated the feasibility of running Apache spark jobs to process TV events on AWS EMR Serverless with documentation
- *Technologies Used:* Apache Spark, Zeppelin, Flink, EMR, Kubernetes, Docker, AWS, Scala, Airflow, S3, Hive, Parquet

Data Engineer
Zeotap India Pvt Ltd, Bengaluru, India

Nov 2019-Jul 2021

- Built data pipelines in Scala spark for analytical and data delivery use cases on a billion-node-ID-Graph
- Created CI/CD automation pipelines for Scylla database backup-recovery and optimized runtime by three times by multithreading
- *Technologies Used:* Spark, Yarn, Livy, Scylla, Janusgraph, Python, Scala, Dataproc, EMR, Apache Airflow, AWS, GCP, S3

Data Engineer
Endurance International Group, Bengaluru, India

Jul 2018-Oct 2019

- Engineered scalable streaming and batch ETL pipelines for data replication from 6+ OLTP data sources to Data Warehouse
- Built and maintained a data analytics platform for BI reporting and data analysts
- *Technologies Used:* Apache Nifi, Apache Kafka, Kafka-connect, PostgreSQL, Redshift, Redis, AWS, Java, Python, Azkaban, S3

SKILLS

Programming Languages: SQL, Python, Java, Scala, GoLang, C/C++, Gremlin

Self-Taught tools: Terraform, Kinesis, MySQL, Cassandra, Tableau

Areas of Experience: Software Engineering | Analytics Engineering | Object-Oriented Programming | Large-scale data processing | Data Science platforms | Big Data Infrastructure | Leveraging OSS | API design | Restful web services | Data Profiling | Data aggregation | Data cleaning | Business Intelligence | Cloud Infrastructure | Microservices | Data warehousing | Design and development of batch & streaming data solutions | SDLC best practices | Data Management | NoSQL

Soft Skills Highlights:

Curious - Conducted various learn and share sessions among teams | *Committed & Reliable* - Became point-man of data systems for resolving cross-functional team's data requests efficiently and received various spot awards | *Integrity & Empathetic* - Ensured data integrity of BI reports and data delivery pipelines by adding data quality checks and understanding stakeholder's concerns | *Innovative & Process Improvement* - Created utility tools to handle 20-30 Oozie job failures for a better triage process in team

PROJECTS

Weenix Kernel Development: Iteratively developed operating system kernel in C

- Implemented Processes, Threads, Mutexes, and Context switching system calls in phase one
- In second phase, built Virtual File System to create/delete files and directories
- Third phase involved implementation of fork system call and Virtual Memory management system

EDFS and Partition MapReduce Framework:

- Created HDFS-like file system that stores data partitions as DB tables
- Provided Map/Reduce API to perform map and reduce operations on EDFS data
- *Technologies Used:* Python, Firebase, MongoDB

LEADERSHIP AND INVOLVEMENT

- Implemented machine learning POCs to classify customers based on buying patterns and won Innojam contest at EIG
- Founded a data structures and algorithms coding club in undergraduate college and mentored 80+ juniors