

# Bharathram S

Data Engineer

Walmart Global Tech, India.

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## Personal Statement

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I'm passionate in building data engineering solutions for Big Data in cloud (GCP/AWS). Having 5 years of work experience and in-depth knowledge of distributed computing, various open-source tools and deployed data pipelines from development to production. Plus, strong leadership skills as well as strong fundamentals in Data Structures, Algorithms, SQL & Programming.

## Experience

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### Data Engineer (October 2021 – Present)

Walmart Global Tech, Chennai.

- Built cloud-based data pipelines to transform and ingest huge volume of data on daily basis using Scala Spark and Hive for data commercialization platform
- To overcome common recurring problems on existing data pipelines, implemented a reusable design pattern and migrated existing workflows to it. Which resulted in drastic reduction in unnecessary production issues.
- Built near real time data ingestion pipeline using Apache Kafka and Spark streaming to consume data from various sources, transform and distribute it to various downstream systems.
- Optimized existing spark jobs and involved in production planning, RCA and provided remediation plan for unforeseen production data pipelines issues

### Application Engineer (June 2020 – September 2021)

Amazon Development Center, Chennai.

- Created a data pipeline using S3, PySpark on EMR, and Redshift for books feeds ingestion and provided decisive insights using QuickSight dashboards for business teams.
- Finalist on catalog support and operations hackathon 2021, where I analyzed 2 billion product information using pyspark to remove redundant attributes, invalid attribute constraints, and

## Professional Skills

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- Apache Spark
- Apache Hive
- Apache Kafka
- SQL
- Scala
- Python
- PySpark
- Google Dataproc
- AWS EMR
- AWS QuickSight
- AWS Redshift
- AWS S3
- HDFS

## Certifications

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Big data Hadoop and Spark Developer – Simplilearn

Advanced google analytics – Google

Introduction to machine learning – Coursera

reported blocked vendor contributions.

- As a part of on-call activity, developed transformation scripts using spark DataFrame API, created and managed data pipelines, scheduled and maintained distributed jobs

#### **Catalog Specialist II (April 2019 – May 2020)** **Amazon Development Center, Chennai.**

- Analyzed purchases data using Amazon Redshift and Quicksight to furnish insights for multiple business use-cases.
- Worked with Amazon Science team for creating a new deduped catalog and selection data through data extraction from multiple sources, performed manipulation task like filtering, aggregation, joins, User Defined Functions (UDF) and stored/ingested in an efficient way using partitions and file formats. Until date, the program with the Science team impacted the creation of a catalog for 4K brands and with the Business team in backfilling of 600K items and concessions savings of \$6.1M.
- As a part of the universal brand catalog program, built a global brand catalog across amazon and designed data pipelines to ingest, validate brands regularly. It helps to capture brand tree hierarchy, inter-brand relationships, and other business use-cases.

#### **Technical Operations Associate (July 2017 – March 2019)** **Amazon Development Center, Chennai.**

- Reverse engineered complex semi-structured data, analyzed layouts, and constructed patterns to classify them. With the incorporation of the constructed model on an automated data extraction pipeline, Millions of data rows were extracted precisely without manual intervention. It unblocked an automated product extraction pipeline and resulted in saving 2 FTE in Q2 2018.
- Performed code review and enhanced existing modules and increased the functionality of operations by automating multiple manual processes.

## **Education**

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### **B.E in Electrical and Electronics Engineering - 2013 to 2017**

Completed graduation from Panimalar Engineering College with a CGPA of 7.61 on a scale of 10.

## **Achievements**

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Received “ultimate Ideator” award in Re-imagine’18 - Amazon hackathon.

Won cash prize in “power without boundaries” hackathon hosted at hackester.io

## **Personal Details**

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**Codewars:**

<https://www.codewars.com/users/rabhar>

**HackerRank :**

<https://www.hackerrank.com/rabhar>