

Wrishav Bhattacharyya

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PROFESSIONAL EXPERIENCE

Walmart Global Tech India

Software Engineer 3

Bengaluru, Karnataka

07/2023 - Present

- Implemented efficient caching with **Netflix Hollow Cache** in a dynamic **producer-consumer** system, storing snapshots in an **Azure Blob container**. Integrated **Kafka event triggers** for seamless cache updates, improving startup time, and eliminating the need for pod or cluster restarts during refreshes.
- Engineered **Spark jobs** for promise delivery date precomputation, optimizing item and cart page performance during v3 to v4 migration. Enhanced **Cassandra** and **Memcached** response times from 500ms to 220ms. Hosted on **GCP Dataproc** with **auto-scaling**
- Responsible for designing and creation of **Cassandra Table** with implementation of **Cassandra Layers and Cache Layers** for fetching data from the database during **Server Startup**. Incorporated various **Spring Components** and used **Google Guava Cache** to handle graceful **preloading** of Data.
- As part of **Transportation Cost Optimisation** revamped Last Mile Delivery Volume through **Multiple Hop Driver-Parcel Matching** with time windows, using **Linked Lists**. Improved transactability on **Item and Cart Pages**, reduced **Out of Stock**, and enhanced logging for attainment optimization in **Walmart's Florida and Texas markets**

Walmart Global Tech India

Software Engineer 2

Bengaluru, Karnataka

01/2021 – 06/2023

- Joined as a member of the **Promise & Sourcing** team, integral to Walmart eCommerce's **cart and checkout team**. Managed critical **P0 applications** during events like Holiday, Black Friday, and Thanksgiving, resolving **P1/P2 issues** and addressing 10k backorders for seamless customer shopping across **US, Canada, and Mexico markets**.
- Strengthened production robustness with **Splunk Dashboards** for meticulous exception monitoring, heightened **code coverage**, and proactive metrics tracking for **top-priority features**. Swiftly addressed issues in **Canary deployments**, fortifying the system's resilience
- Designed and implemented a **Customer Feature** for Walmart's **Sourcing Product** which catered towards introducing **Inventory Node Level Reservation** enabling Walmart to enhance its **On Time Delivery** metrics reducing **Expected Delivery Date Errors** by 33% and reducing **Unwanted Inventory Node Flips** by 13%.
- Carried out **resource optimisation** strategies by identifying unused platforms and removing legacy **caching** code flow. Reducing per day cost of \$647 at **Fulfilment** org level for unused VMs. Reducing per day cost of \$298 for unused caching mechanism. Received **Bravo** award as an accolade.

SKILL SETS

- Programming Languages** : Java, C,C++, Java8,Scala,Python
- Tech Stack** : Netflix Hollow Libraries, Spring, Cassandra, Azure Sql, Postman, Apache Tomcat,Kafka , Spark
- Monitoring & Cloud** : Prometheus-Grafana, Splunk, Tableau, Kubernetes , GCP , Dataproc , Azure Cloud Storage

EDUCATION

Indian Institute of Information Technology Allahabad

Bachelors in Technology(B.Tech.), Information Technology

Prayagraj, Uttar Pradesh

2017 – 2021