

# BHARGAV NAGARAJ REDDY

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## OBJECTIVE

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- Software Engineer 3 with 7+ years of work experience at Walmart/Sam's Club
- Proven track record of building scalable, high-performance systems through cross-functional collaboration, with a strong foundation in backend development, distributed systems, and cloud-native architectures.
- Motivated to take ownership of complex systems, contribute to architectural decisions, and collaborate across teams to drive engineering excellence, innovation, and alignment with business goals.

## EDUCATION

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**Bachelor of Computer Science**, PES University

2014 - 2018

## SKILLS

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<b>Languages</b>	C, Java, Python
<b>Database/ cache</b>	PostgreSQL, MSSQL, Hazelcast, Redis, Liquibase
<b>Other</b>	REST API, Spring Boot, Pub Sub, RabbitMQ, Kafka Streams, Debezium, Docker, Git, Elastic s
<b>Build tools</b>	Gradle, Maven
<b>Tests</b>	JUnit, cucumber, Component tests, Integration tests, Contract tests
<b>Cloud</b>	Azure, GCP
<b>Concepts</b>	Micro-services, Spring Java Backend, Machine learning

## EXPERIENCE

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**Walmart (Sam's Club)**

Mar 2022 - Current

Software Engineer III

*Bangalore, KA*

Sams Data Governance

- Developing enterprise-scale data governance and cataloging solutions using Spring Boot, microservices, ElasticSearch, Camunda workflows, Kafka, Redis, PostgreSQL, and CI/CD pipelines. Delivered features such as search, certification of assets, and issue management workflows, enabling scalable metadata management and business data quality insights across Sam's data platforms.
- Built and maintained a Technical Data Catalog (TDC) microservice with ElasticSearch integration and caching, improving metadata search performance and reducing API latency by 20%.
- Delivered end-to-end camunda workflows for CRUD business asset, Issue/Inquiry management at asset, portal, including CRUD forms, task routing, and email notifications.
- Played a key role in the successful launch of the SDC platform, ensuring business continuity and platform scalability.

EDP Convergence & Walmart Integration

- Led the migration of DGC functionalities from Collibra to EDP, saving Walmart \$4M in licensing costs while enhancing internal governance capabilities.
- Designed and implemented a plug-and-play CRUD architecture for Walmart-specific business assets, enabling rapid onboarding of new asset types with minimal engineering effort.
- Migrated Sam's Data Club (SDC) services, databases, and ElasticSearch indices to the Enterprise Data Portal (EDP) to unify Walmart's data governance platform and reduce system fragmentation.
- Delivered Contribution Profit by integrating BigQuery and Excel-based rulebooks into a scalable Bigtable → Kafka → Elasticsearch → UI pipeline, improving business rule traceability.

- Coordinated cross-functional testing and production deployments, resolving critical issues and earning multiple Bronze Awards for successful delivery and business impact.

#### Data Quality tool

- Led the design and development of a metadata crawler framework supporting multiple data sources (Databricks, BigQuery, PostgreSQL, CosmosDB), enabling scalable metadata ingestion across platforms.
- Designed a physical data model using a logical data model provided by a form database modeler for Technical data catalog.
- Created a component to facilitate the integration of new tables into the Data Quality tool, enabling assessment of data quality scores/Source Target Validation for tables within Sams Club.
- Introduced concepts that aided the team in maintaining code and SQL scripts, utilizing tools such as the code formatter "Spotless" and the database management tool "Liquibase."

#### Multi tool platform

- Optimized backend performance by over 50% through MySQL tuning and network call reduction, improving system responsiveness.
- Built semantic layer models in Cube.js or Looker and deployed the analytics platform to Cloud, enabling structured and scalable data exploration.
- Designed and implemented a low-latency microservice to serve analytical APIs with built-in rate limiting, achieving sub-200ms response times for Sam's Club's "Own Your Inventory" app—enabling associates to place accurate inventory orders in real time.

### **Honeywell (Intelligrated)**

Software Engineer II

Jul 2018 - Mar 2022

*Bangalore, KA*

#### Business team

- Developing Automated warehouse solutions for large-scale warehouses using Spring Boot and cloud, Microservices, SQL database, Rest API, AMQP, Swagger, Eureka, Camunda workflow, Hazelcast for Remote Caching, JPA database ORM framework, and DROOLS for Rule Engine.
- worked on multiple microservice components, developing and implementing new functionalities while gaining a comprehensive understanding of each component's domain knowledge.
- contributed to the estimation, review, coding, design, requirement analysis, and implementation of epics.
- Improved code robustness through the implementation of various testing methodologies including JUnit, component tests (using Cucumber), contract tests (using stubs), and integration tests.
- Developed a new microservice application from the ground up to enable storage business functionality, which was successfully deployed at the customer's site.

#### Data Virtualization team

- Designed, Developed & Maintained a data streaming framework for the movement of data and transformation of business data using Kafka, Kafka streams, Kafka connect, and Elastic search
- Generated actionable insights by transforming data through the creation of key performance indicators (KPIs), dashboards, alarms, and machine learning (ML) models. These value-added products significantly improved accuracy and contributed to the success of the project.

#### Data Intelligence team

- Contributed to the development of machine learning models under the guidance of a senior engineer that optimized container movement and reduced traffic on the conveyor by 20%.
- Implemented predictive algorithms that achieved up to 92% accuracy in estimating pick time for items.
- Secured a patent for optimizing the travel time of containers on conveyors and the pick time of items.

#### Platform team

- Worked on the development of a internal high-level code generator framework called reds that automatically generates Spring Boot microservices application based on business teams provided models/ requirements.
- Created a graphical Simulator using OpenGL and C++ as POC, and later idea was turned it into a product offering.

### **Summer Intern**

Vantage Agora

Jun 2017 - Jul 2017

*Bangalore, KA*

- Interpreted about Business operating system & Analyzed workflow
- Recommended optimization for a few bottlenecks in the database

## **PERSONAL PROJECTS**

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### **Inference of Crime Using Big Data**

Jan 2018 - Apr 2018

PES Final year project

- Analyzed the crime rate of Chicago, reducing crime rate giving the authorities to find ways to curb crime
- Predicted crime rate by incorporating Nodal (Demographics and Point of Interest data) and Edge (Taxi Flow and Geographic data) features into a regression model

### **PayPes**

Jun 2017 - Dec 2017

PES University

- Build an Android application to make cashless transactions possible at college using id cards
- Introduced a digital Wallet, which was hosted on Google Firebase services and also implemented services like NoSQL database, file storage, notification manager
- Implemented functionalists such as scan bar code, transaction history, pre-order, etc. Also, we create different UI flow for merchants and customers. The application was backed by Razorpay for a payment gateway

## **HONORS-AWARDS**

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- Received three Bronze Award across three years for delivering the multiple feature for sams data club, Data Quality Tool, EDP convergence also for saving Walmart \$4M in licensing costs in collibra tool.
- Received Excellence award for End to end delivery of the contribution profit framework for business with zero defects and timely.
- Received multiple Bronze/ Silver Awards at Honeywell for contribution to the Pick time/ Travel time analysis using Operational research/ML, solving customer problems by bringing in new ideas and technologies and building a data flow framework called Mystic
- Winner of Walmart's Global Techathon 2024 with "Soochak 2.0" (In-store Shopping Analytics).

## **ELECTIVES AND MOOCS**

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- Certification Data Science and Artificial Intelligence from IIT Madras
- Certified SAFe 4 Practitioner from Scaled Agile

## **INTEREST**

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- Causal gaming, interested in new technologies, and the latest innovation
- Fond of Traveling, Trekking, and food enthusiast