

Vikas N Murthy

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Summary

Engineering Leader and Staff Software Engineer with 10+ years of experience building and scaling distributed, low-latency systems serving millions of users. Proven track record of leading cross-functional teams and delivering ML-powered solutions to production at scale. M.S. in Computer Science (USC).

Experience

Walmart Global Tech | Sunnyvale

Staff Software Engineer / Manager | 03/2024 - Present

- Led multi-team engineering efforts across E-Commerce domains, delivering scalable, low-latency platforms for product setup, translation, and order fulfillment systems supporting millions of daily users.
- Designed and operated large-scale platforms handling **millions of daily requests** under strict SLAs, powering real-time search query processing, global catalog ingestion, and order fulfillment workflows.
- Partnered with Product and Data Science teams to deploy **ML-driven ranking and catalog content quality models**, improving relevance and customer engagement across e-commerce journeys.
- Scaled distributed systems using Kafka, stream processing, and caching strategies to support peak seasonal traffic and real-time decisioning.
- Championed engineering excellence through clean architecture, CI/CD best practices, robust observability, and a strong incident response culture.
- Mentored engineers across levels, led performance reviews, and supported career growth through structured feedback and coaching. Implemented Agile delivery, quarterly OKRs, and metrics-driven planning to align team efforts with business outcomes.

Walmart Global Tech | Sunnyvale, CA

Staff Software Engineer | 03/2023 - 03/2024

- Led a team to design and deploy scalable ETL pipelines for multilingual product catalog data, ensuring high-quality datasets for ML model training and downstream systems.
- Designed and deployed ML model inference workflows for Search Query, product title, description, and metadata translation into multiple languages which improved search conversion by 4%.
- Built internal tooling for translation data quality management and annotation, actively used by linguists to improve ML training accuracy.

Walmart Global Tech | Sunnyvale, CA

Staff Software Engineer | 10/2021 - 03/2023

- Led a team of engineers in transforming the item setup pipeline to handle higher throughput and support cloud elasticity using principles defined in the Reactive Manifesto.
- Led the design and development of a data platform integrating the Walmart store ecosystem with online systems, increasing unique SKUs on walmart.com from **700M to 3B** and enabling seamless omnichannel availability. This platform was a key enabler in merging the legacy grocery app with the Walmart One app, driving increased customer traffic and sales across marketplace and grocery domains.

Skills

Java, Python, System Design, Architecture, Cassandra, Redis, Big Data, PostgreSQL, Kafka, Apache Spark, Apache Airflow, Docker, Kubernetes, TensorFlow, Big Query

Education

University of Southern California | Los Angeles, CA

Computer Science | 12/2016

Achieved a Master's Degree with a GPA of 3.68. Courses: Applied Natural Language Processing, Artificial Intelligence, Information Retrieval and Web Search Engines, Analysis of Algorithm