Vikas N Murthy

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Summary

Experienced Software Engineer with 10+ years of expertise building scalable, distributed systems. Proven ability to lead cross-functional teams and deploy machine learning-powered solutions in production. Master's in Computer Science from USC. Passionate about high-impact, high-scale engineering with a strong focus on performance, reliability, and continuous innovation.

Experience

Walmart Global Tech | Sunnyvale, CA
Staff Software Engineer | 01/2024 - Present

- Currently working as part of the Walmart Translation Platform team which is responsible for translating catalog and content on walmart.com to other locales enabling the item to be sold on various markets.
- Led a team of engineers to setup scalable ETL pipelines to process multilingual product catalog data, ensuring clean and consistent datasets for ML model input and downstream systems.
- Designed and deployed ML model inference workflows for product title, description, and metadata translation into multiple languages.
- Developed internal APIs to serve model predictions in real-time for Walmart.com across international markets including Canada, Mexico, and Chile.
- Collaborated with ML researchers to productionize models, reducing latency by 35% and improving translation quality using BLEU score metrics.
- Built internal tooling for managing translation data quality and annotation processes used by linguists.

Walmart Global Tech | Sunnyvale, CA
Staff Software Engineer | 10/2021 - 01/2024

- 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.
- Building tools to support catalog update, refresh the product search index and provide software tools to Category specialists to enrich catalog and search data.
- Lead the design and development of data pipelines and platform which integrated with the walmart store ecosystem and made the store catalog available online. This increased the unique SKU's available on walart.com from 700M to 3B. This platform was also a key factor which enabled the merger of the legacy grocery app with walmart one app which resulted in increased customer traffic and sales across marketplace and grocery domains.

Expedia Inc | Seattle, WA
Software Development Engineer | 02/2017 - 02/2018

- Implemented cloud-based distributed cache on AWS, reducing object load times by 70%.
- Built RESTful services in Spring Boot to process and store event-driven JSON data to Amazon S3.
- Developed a full-stack CRUD application with Spring Boot (backend) and Bootstrap/jQuery (frontend) for managing S3 object metadata.

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