Contact

vikas.n649@gmail.com

www.linkedin.com/in/vikasnar (LinkedIn)

vikasnar.github.io (Portfolio)

Top Skills

Engineering Management

Cross-functional Team Leadership

SQL

Languages

English (Native or Bilingual)

Kannada (Native or Bilingual)

German (Elementary)

Hindi (Full Professional)

Vikas N Murthy

Engineering Lead @Walmart Translation Platform | Global Catalog
Mountain View, California, United States

Summary

Experienced Software Engineer Lead | 10+ years in the industry | High performant Distributed Systems.

I specialize in building highly scalable distributed systems. I have a Master's degree in Computer Science from the University of Southern California. Throughout my career, I have demonstrated a strong commitment to delivering high-quality solutions and have consistently contributed to the success of various projects. I'm passionate about technology and driven by a dedication to excellence, I thrive in dynamic and challenging environments. Open to collaboration and continuously seeking opportunities for professional growth and innovation.

Experience

Walmart Global Tech
8 years 2 months

Software Engineering Manager
2024 - Present (1 year)
Sunnyvale, California, United States

Led high-performing engineering teams across E-Commerce domains, delivering scalable, low-latency systems for product setup systems, translation and order fulfillment.

Deliver large-scale platforms handling millions of daily requests with strict SLAs, supporting real-time search query processing, global catalog ingestion pipelines and order fulfillment infrastructure.

Collaborated with Product and Data Science teams to build ML-driven ranking models and improve product content quality in e-commerce journeys.

Owned roadmaps for core services including Fulfillment Engines, Search Query Processing APIs, catalog ingestion, and customer experience flows.

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.

Staff Software Engineer
October 2021 - December 2025 (4 years 3 months)

- Currently part of Walmart Translation Platform building ML data pipelines for model training, feedback and serving to translate all content on Walmart.com across different markets such as Canada, Mexico, Chile etc.
- As part of the FulFillment Management Services (FMS) team worked on various initiative to optimize the workflow for fulfilling the order. Build internal tool to provide insights of the application health metrics and productivity metrics such as tests runs, duration, execution time.
- Led a team of engineers in redesigning and optimizing the item setup pipeline and associated systems, enabling seamless scalability and cloud elasticity in line with the principles of the Reactive Manifesto. This transformation supported the catalog's growth from 600M to 2B unique products while reducing annual cloud costs by approximately 70%.
- As an area lead i am responsible for the design, planning and implementation of various business initiatives that power the walmart.com site experience.

Senior Software Engineer
February 2019 - October 2021 (2 years 9 months)
Sunnyvale, California

• 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 complete store catalog available online. 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.

• Lead the the design for Cloud migration from private data centers for multiple application to achieve higher up time and better latencies.
• Designed and developed several components involved in the catalog setup pipeline which enabled merchants to setup items effortlessly and reduced the overall item setup time and increased the catalog accuracy resulting in better search experience to the customer and increased basket size.

Software Engineer III
November 2017 - February 2019 (1 year 4 months)
Sunnyvale

• Designed and Developed highly scalable restful micro services to serve Walmart customer traffic.
• Designed key pipelines to orchestrate Walmart catalog data setup by merchants, sellers and Category specialists.
• Built real time streaming and batch processing data pipelines using Big Data technologies like Apache Kafka, Storm, Spark, Hadoop, Hive & Cassandra etc. capable of processing millions of updates and process terabytes of data at scale and provide updates in near real time to consumers.
• Involved in solving a lot of scaling & optimization problems spanning across many systems. These solutions have helped our eCommerce site & Mobile Apps handle peak loads going into millions of transactions.

Expedia Group
Software Developer
February 2017 - November 2017 (10 months)
Bellevue, Washington

I worked with Expedia as a software developer I for the Itinerary team where I designed and developed backend services to serve Expedia.com and it other brands.
Designed and developed email notification service for customers to notify them of upgrades and new offers.

Expedia Group
Software Engineering Intern
May 2016 - August 2016 (4 months)
Bellevue, Washington

Implemented a distributed cache in cloud using AWS that reduced the object load time in production by 70%.
Developed RESTful service using Spring to update JSON data extracted from events triggered by underlying services to the Amazon S3 bucket.

Developed an application to lookup and perform CRUD operations on objects in AWS S3 building the backend API in Spring Boot and frontend using Bootstrap, JS, jQuery, AJAX.

SAP
Associate Software Developer
June 2013 - July 2015 (2 years 2 months)
Bengaluru Area, India

• Designed and developed Java based Framework and backend components to model business data fetched from the client server.
• Developed Widget Factory to render the GUI using configurable XML to aid customization.
• Optimized queries and methods to fetch business data stored in CRM and ERP using RDBS and SQL, based on user customization.
• Worked in an AGILE Environment developing new features and functionalities for the product SAP Retail Execution, an ANDROID application designed to help sales representatives and merchandisers in planning visits and tracking sales data.
Implemented the Google map API to render Maps using JavaScript.
• Enhanced the performance of the application by reducing the DB query time, migrated the application to material design, Implemented the Google map API to render Maps using JavaScript.
• Developed various frontend components of the application using HTML5/ CSS and JavaScript.
• Designed a script that runs on HP Load Runner Tool to perform load testing of the application.

Defence Research and Development Organisation
Application Development Intern
March 2013 - June 2013 (4 months)
Centre for Artificial Intelligence and Robotics, Bangalore

-Was Involved in the design and development of Android Application SAMS (Smart Assistance for Mobile Soldiers).
-The aim of this project is to provide a visual tour through the interiors of highly secure terrorist prone buildings to ease out the work of armed forces. So, by designing an android application, on the highest level; it provides a virtual tour of important monuments of the country with voiced based navigation.

Defence Research and Development Organisation
Research Internship
March 2012 - May 2012 (3 months)

Centre for Artificial Intelligence and Robotics, Bangalore

-Worked on Implementing a Bloom Filter in a Client Server Architecture
-One of the primary concerns in computing is the efficient and optimized
storage of data so that it can be accessed quickly.
-The aim of this project is store data in an efficient way using a bloom filter and
automating the process of sending encrypted data to multiple clients from a
centralized server.

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Education

University of Southern California
Master of Science (M.S.), Computer Engineering · (2015 - 2017)

Ramaiah Institute Of Technology
Bachelor of Engineering (BE), Computer Science · (2009 - 2013)