

VINEET KATTA

Staff Software Engineer



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SUMMARY



Software Engineer solving complex business problems by building scalable, distributed systems and defining architectural standards for reliable and high-performance systems.

WORK EXPERIENCE



Coupa Software | Senior Software Engineer

2021 – Present

- Designed and implemented a centralized messaging service handling **2M+ daily messages**, collaborating with backend, SRE, and QE teams to standardize cross-service communication. Established it as a **Level 1, business-critical service** with 99.99% reliability SLA as a **subject matter expert in messaging**.
- Drove 10x performance** improvement of CMS by orchestrating DB query optimization efforts, guiding SQS tuning and horizontal autoscaling strategies across a team of performance engineers and SREs.
- Defined observability practices**, delivering New Relic dashboards covering system health, latency, KPIs and SLO/SLA metrics, enabling engineering leadership, product managers, and on-call teams to make data-driven decisions and reduce MTTR.
- Designed and implemented** scalable bulk data extraction system for customers, introducing streaming, pagination, and throughput-safe patterns.
- Automated vulnerability detection and remediation using **n8n workflows** and **MCP LLMs**, eliminating nearly all manual steps for maintaining platform services security.
- Led cross-team cloud migration initiatives**, guiding and planning with customers, SREs, and cloud ops engineers during the transition of services from self-hosted environments to cloud-native Kubernetes on AWS and Azure, improving scalability, cost efficiency and operational consistency.

Rally Health Inc. | Senior Software Engineer

2017 – 2021

- Developed and scaled the **Ledger service** for all reward payments to users.
- Designed and implemented an **ACH payment mechanism** throughout the rewards platform integrating with **Plaid** and Optum Bank, enabling users to receive rewards as cash directly in their bank accounts.
- Drove technology improvements by incorporating **Alpakka Reactive Streams** to introduce back-pressure for RabbitMQ and MongoDB connectors, significantly enhancing service availability and resiliency.
- Led multiple product enhancements** in user engagement and rewards, including streak rewards for gym visits, step goals, cost estimates for medical visits, and automated daily email digests, improving user engagement and satisfaction.
- Mentored the team** through monthly design forums, fostering discussions on distributed systems, caching strategies, best practices and modern architectural approaches.

Rally Health Inc. | Software Engineer Intern

Summer

2016

- Developed a **full-stack search tool** enabling customer support to trace and retry user events, significantly improving troubleshooting speed and operational efficiency.

Morgan Stanley | Senior Technology Associate

2013 – 2015

- Designed and implemented critical business logic for **trading engines**, to optimize execution prices and reduce trader overhead in manual steps.
- Developed a full-stack internal tool using Java and ExtJS to manage, track, and audit development tasks for a multi-year migration project, reducing analysis time by 40% and improving team efficiency.

- Optimized workflows and processes by preprocessing orders and setting automated limits, enhancing both system reliability and operational efficiency for trading teams.

Naukri.com (Info Edge) | Software Engineer Intern

Jan - May 2013

- Developed a **predictive monitoring tool using machine learning** and time-series analysis to forecast web server failures based on traffic trends and CPU load predictions.
- Integrated with Zabbix to provide dashboards, visualizations, and alerting, improving server reliability and enabling proactive system maintenance.

SKILLS



- Messaging Systems and High-Traffic systems
- Microservices / Monolith architectures
- Distributed Systems
- AWS Queues, DB, S3
- Azure Storage Queues, Blobs
- Kubernetes
- MySQL / MongoDB
- Leading cross team projects
- Ideation of 0-1 and scaling 1-n projects
- LLMs
- n8n workflows
- New Relic

EDUCATION



University of California San Diego

MS in Computer Science (GPA 3.81)

Specialization: Artificial Intelligence

Sept 2015 - Dec 2016

Indian Institute of Information Technology

Allahabad

B. Tech. in Information Technology (GPA 8.54)

July 2009 - June 2013