

Vasavi Agarwal

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PROFESSIONAL EXPERIENCE

Nasdaq

Bengaluru, India

Senior Software Developer

May 2024 - Present

- Improved performance and stability across multiple generations (Gen 1, 3, and 4) of the Pre-Trade Risk Management system by delivering full-stack enhancements, critical fixes, and system optimisations.
- Improved risk workflow and exposure consumption logic through targeted bug fixes and feature enhancements, ensuring accurate and reliable pre-trade validation.
- Identified Gen 3 limitations and contributed to Gen 4 architecture for real-time risk enforcement, improving transparency and performance.
- Wrote low-memory, garbage-free code in Gen 4 to reduce GC overhead and significantly boost runtime efficiency.
- Worked with international exchanges and trading platforms to deliver fixes, address market-specific needs and support integration of risk control features.

Engati Technologies

Bengaluru, India

Senior Software Engineer

Jan 2023 - Apr 2024

- Boosted message processing throughput by offloading channel packet parsing from the main processor.
- Built a job scheduler using Apache Pulsar and Quartz, streamlining multi-step workflows for customers.
- Integrated Omnisend, Klaviyo, and Mailchimp for Engati Insights, helping Shopify clients increase revenue by 25%.
- Built Instagram Social Inbox using ArangoDB to improve social media content management and reduced post-sync time by 60%.
- Led Kafka Streams-based analytics engine for message tracking, enabling data-driven decisions.
- Conducted intern training on Core Java, Redis, and testing best practices.

Software Engineer

Jul 2021 - Dec 2022

- Led the integration of WhatsApp Commerce, enhancing cart functionality and personalised user interactions, reducing cart abandonment and boosting revenue.
- Unified WhatsApp and Instagram messaging, enhancing social media engagement by 20% and reducing support load.
- Built WhatsApp Template system enabling customers to re-engage users, extend engagement windows, and start new conversations—driving revenue growth for the company.
- Mentored interns on development, deployment, and best practices.

Software Engineering Intern

Jan 2021 - Jun 2021

- Helped automate billing transition to MAU model, improving accuracy and operational efficiency.
- Enhanced user experience via timely usage and overage updates through email and UI.

EDUCATION

SRM IST

Chennai, India

Bachelor of Technology, Computer Engineering (CGPA - 8.96/10)

2017 - 2021

TECHNICAL SKILLS

Languages: Java, Python, JavaScript

Tools & Technologies: Spring Boot, Git, Hibernate, Docker, React

Misc: Kafka, Redis, MySQL, MongoDB, HBase

PUBLICATIONS

[1] V. Agarwal, R. Sipani, and P. Saranya. Abnormal blood vessel segmentation for proliferative diabetic retinopathy screening using convolutional neural network. In M. Singh, V. Tyagi, P. K. Gupta, J. Flusser, T. Ören, and V. R. Sonawane, editors, *Advances in Computing and Data Sciences*, pages 162–170, Cham, 2021. Springer International Publishing.