

Harshaavardaan T

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EDUCATION

PSG College of Technology

Bachelor of Technology in Information Technology - 8.86/10

Coimbatore

July 2019 – July 2023

EXPERIENCE

Software Engineer 2

Morgan Stanley

January 2025 – Present

Bangalore

- Led the development of a **low-latency REST API** handling 1M+ financial records with sub-100 ms response times using Elasticsearch and Redis for critical settlement and payment processing flows.
- Designed and implemented an **Apache Kafka-based real-time data pipeline** streaming 30K+ updates daily to PostgreSQL and downstream services with zero data loss and high availability for business-critical systems.
- Owned end-to-end delivery of a **bulk update platform (Spring Boot + React)**, reducing high-volume data processing time from 3 hours to 10 minutes and eliminating manual SQL operations for weekend releases.
- Authored **ADRs for high-throughput scalable architecture** (topic design, retries, and failure handling), improving failure isolation and reducing time-to-triage during production incidents.

Software Engineer 1

Morgan Stanley

August 2023 – December 2024

Bangalore

- Developed a **reusable Kafka job processor** with retries, Redis-backed tracking, and dead letter queue support, adopted by 5 internal teams and handling 1K+ CSV/JSON export jobs per month.
- Built **horizontally scalable load testing framework** using Locust and Docker to establish API SLAs/SLOs and generate detailed latency, throughput, and percentile metrics.
- Accelerated critical services by **stress testing** and **profiling** to identify bottlenecks, eliminating allocation hotspots and optimizing SQL queries, reducing API latency by 23% and improving batch loading runtime by 65%.
- Improved reliability and operability of internal services by adding **request schema validation** and **endpoint metrics**, preventing bad data from propagating and simplifying on-call debugging.

Spring Intern

Morgan Stanley

January 2023 – July 2023

Bangalore

- Built an intelligent feedback system that **reduced ML training data generation time from 2–3 hours to 5–10 minutes** using user-corrected data and automated regression detection.
- Implemented **real-time model metrics generation** using Python, Pandas, and SQL, enabling continuous monitoring of model quality across code and data changes.

Summer Intern

Nagarro

June 2021 – July 2021

Dubai

- Architected an app leveraging **REST API integration** to empower users with precise location-based reminders and alarms across dynamic map interfaces using **Jetpack Compose** and **Kotlin**.
- Contributed to the design and review of **modular, versioned REST APIs**, focusing on extensibility and backward compatibility for multiple external consumers.

PROJECTS

Real Time Stock Sentiment Tracker | Python, Flask, React, PostgreSQL, Docker

- Created a real-time system processing 1000+ daily social media posts, implementing BERT-based models to classify sentiment polarity with 87% accuracy across multiple subreddits and Twitter feeds.
- Developed an interactive dashboard visualizing sentiment trends and correlation patterns with stock price movements, enabling identification of trading opportunities through aggregated sentiment scores.
- Containerized the system with Docker, reducing environment setup time and enabling reproducible deployments.

TECHNICAL SKILLS

Languages: Java, Python, Javascript, Typescript, SQL, Kotlin

Frameworks: Spring Boot, React, Angular, JUnit, Jest

Technologies: Apache Kafka, Redis, PostgreSQL, Elasticsearch, DB2, Jenkins, Docker, Locust