

VAISHALI GUPTA

Software Engineer, Backend, Distributed Systems

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Experienced and outcome-driven software engineer with hands-on experience developing Restful microservices in Java and various Spring Frameworks demonstrating comprehensive technical proficiency.

Worked extensively in developing scalable microservices, adeptly managing more than 10+ million daily transactions, showcasing a track record in scalable system design.

WORK EXPERIENCE

SCHOOLDAY (a secure K-12 data integration EdTech startup)

Remote

Senior Software Engineer(Part-Time, Freelance)

Mar'25 - Present

- Contributing to the development of a secure, scalable middleware integration platform using **Java 17**, **Apache Camel**, and **Spring Boot**. Currently building REST APIs and data transformation flows to connect educational systems with third-party services.

BLITZY (an autonomous custom software creation startup)

Remote

Full Stack Engineer(Part-Time, Freelance), Distributed Systems

Mar'25 - May'25

- Collaborated on refining and transforming auto-generated applications from Blitzzy's proprietary tool into **production-ready solutions**.
- Addressed complex technical challenges to deliver streamlined and deployable software systems.

NARVAR INC. (an e-commerce post-purchase startup)

Bengaluru, KA

Senior Software Engineer, Distributed Systems

Mar'23 - Jan'24

- Designed a new **carrier webhook system** backed by Apache Pulsar providing secure authenticated webhook endpoints for webhook feeds. This system alone handled **250 reqs/sec** processing **10M+ daily tracking** across **100+ carriers**. This led to a 70% faster processing speed, 30% fewer delays, and successfully addressed data loss, monitoring limitations, as well as security and performance concerns present in previous third-party integration tools.
- Led the planning & execution for seamless migration for **40+ carriers** within three months achieving **99% traffic transition** onto the new webhook platform collaborating closely with cross-functional teams to ensure minimal disruptions.
- Developed RESTful Booking APIs with top carriers like DHL and UPS to enable a **return-via-pickup** option with a return process time **40% less than those return-via-mail** and was rolled out to **20+ cities** in the US across **100+ retailers**.
- Implemented an **async bookings response processor** in the Async booking **microservice** for improved functionality and user experience.

Software Engineer II, Distributed Systems

Sep'20 - Mar'23

- Engineered a highly scalable **subscription service for carriers**, facilitating webhook tracking data actively subscribing to over **150+ retailers** for UPS and others, handling volumes exceeding **1M+ tracking** reqs/day.
- Collaborated on the design and development of a **Zero-code API integration** platform and wrote a **generic auth layer** supporting standard(i.e Api key, Basic..) and non-standard auth mechanisms(2-way auth i.e OAuth etc..) with self-service onboardings, slashing carrier launch time by **99% from one week to one hour**.
- Optimized carrier credentials management by **replacing complex if/else statements** per carrier with a **configuration-driven validation** process, reducing rollout time by **2 days** alongside **reducing testing, and minimizing code redundancy** for easier maintenance.

Software Engineer I, Distributed Systems

Jul'19 - Sep'20

- Built using **Junit5** and **Mockito**, a **config-based unit test framework**, reducing carrier integration go-live prep by 2 days and improving overall carrier team's developer efficiency.
- Contributed to a **generic file processor** (in Go), migrated **20+ carriers**, cutting go-live time **from a week to 2hrs**.
- Successfully **upgraded** a carrier platform service **to the Spring 2.0 major version** resolving dependency issues and challenges which resulted in improved application performance and better resource(CPU, memory..) utilization.

INTELLECT DESIGN ARENA LIMITED (a fintech platform)

Mumbai, MH

Product Engineer

Jun'17 - Jun'19

- Built an **ingestion microservice and a streaming interface** that would ingest data from the different data sources and compile them into a destination data source while transforming and managing data across different domains.

SKILLS

Core Expertise: Java(Expert), Software Design & Development, Microservices, TDD, Rest APIs.

Frameworks & Libraries: Spring Framework (DI, Boot, Rest, MVC) (intermediate), Apache Camel(intermediate), Apache Pulsar, Vault, ORMs(Hibernate JPA), Junit(expert), Mockito, Jmeter, Docker(intermediate) and Kubernetes(basic).

Databases & Build Tools: SQL (Postgres), NoSQL (Cassandra), Redis, Elastic Search, Prometheus, Grafana, Maven & Gradle

Cloud Infrastructure & Deployment Pipelines: GCP, AWS, Circle CI, Jenkins

EDUCATION

National Institute of Technology, Sikkim

Bachelor's of Technology, CSE

July'13 - Apr'17