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

NARVAR INC. (an e-commerce post-purchase startup)   **Bengaluru, KA**

Senior Software Engineer, Distributed Systems   *Mar'23 - Present*

- Designed a new **carrier webhook system** using Apache Pulsar with robust authentication, handling **250 reqs/sec** processing **10M+ daily tracking** across **100+ carriers**, yielding **70% faster processing** and **30% fewer delays.** This solved persistent data loss issues, monitoring limitations, security and performance concerns present in the previous external 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 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   **Mumbai, MH**

Product Engineer   *Jun'17 - Jun'19*

- Was entrusted with two of the major projects for the company's core banking payments services platform.
- 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.

PROJECTS

Fundoo Note[Project Link] - *A simple Google Note application*   *Dec'19*
- It is a Google notes application for a side project to get hands-on experience with certain technologies and frameworks. Tech Stack: Java, Spring MVC, Mybatis ORM, Redis as caching and token store, Elastic Search, Junit.

SKILLS

Core Expertise: Java(Expert), Software Design & Development, Microservices, TDD, Rest API.
Frameworks & Libraries: Spring Framework (DI, Boot, Rest, MVC) (intermediate), Apache Maven, Apache Camel(intermediate), Apache Pulsar, Vault, ORM, Junit(expert), Mockito, Jmeter, Docker(intermediate) and Kubernetes(basic).
Databases: SQL (Postgres), NoSQL (Cassandra), Redis

EDUCATION

National Institute of Technology, Sikkim   *July'13 - Apr'17*
Bachelor's of Technology, CSE