

ANSHUL MANYAM

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PROFESSIONAL SUMMARY

Results-oriented **Backend Software Engineer** with a profound understanding of designing scalable **Distributed Systems** and high-throughput microservices using **Java 21**, **Spring Boot 3**, and **Python 3.x**. Demonstrated **mastery** in translating complex business plans into highly resilient code. Proven track record of taking **ownership** across the software lifecycle—from deploying on **AWS** and **Kubernetes** to driving continuous **contribution** via rigorous testing, robust system architecture, and proactive performance optimization.

SKILLS

Core Competencies: Backend Architecture, System Design, Distributed Systems, Microservices, CI/CD, Code Review, Scalability, Observability, Technical Ownership

Languages: Java 21, Python 3.x, TypeScript, SQL, JavaScript, C++, C

Frameworks & Testing: Spring Boot 3, Spring MVC, Spring 6, Reactor, FastAPI, React, JUnit, Mockito, JPA, Hibernate

Databases: PostgreSQL, MongoDB, Redis, NoSQL, Liquibase, Database Optimization

Cloud & DevOps: AWS, Docker, Kubernetes, Helm, Terraform, Datadog, Vault, Git, CI/CD pipelines

Data & Messaging: Kafka, RabbitMQ, REST APIs, JSON, Parquet, Batch vs. Stream Processing, ELK Stack

Security Protocols: Keycloak, JWT, OAuth 2.0, Vulnerability Management, Encryption, Audit Logging

EXPERIENCE

Kshema General Insurance Limited

Hyderabad, Telangana, India

Member of Technical Staff

Jan 2025 – Present

- Took full **ownership** of the system design for a centralized master data service using **Java (Spring Boot 3)** and **Redis**, cutting API response times by **40%** to directly support core business operations.
- Architected a high-availability payment gateway leveraging **PostgreSQL**, **JPA**, and **Liquibase**, demonstrating **mastery** of software quality via rigorous unit testing to achieve **95% coverage** and a **99.9% success rate**.
- Constructed a resilient **distributed system** for live file request monitoring, utilizing **RabbitMQ** and **Kafka** to ensure **99% availability** with automated retry mechanisms and fault tolerance.
- Instrumented end-to-end observability across all microservices utilizing **Datadog**, configuring real-time telemetry and automated alerting to proactively resolve system bottlenecks.
- Modernized release cycles by implementing **CI/CD pipelines (Git)** and deploying containerized microservices via **Docker**, **Kubernetes**, and **Helm**, eliminating environment inconsistencies.
- Fortified platform security by integrating **Vault** and IAM protocols for granular user authorization, actively driving team **contribution** through rigorous **code reviews** and architectural evaluations.

Associate Member of Technical Staff

June 2023 – Dec 2024

- Engineered scalable **batch processing** pipelines using **Python 3.x**, handling complex data formats (**JSON/Parquet**) for millions of records and boosting backend efficiency by **30%**.
- Synchronized **stream processing** workflows using **Kafka**, **Spring MVC**, and REST APIs, drastically reducing data latency and resolving critical system instability issues.
- Defined robust **data modeling** and **schema design** strategies for **PostgreSQL** and **MongoDB**, automating all database schema migrations across distributed systems.

PROJECTS

Real-Time Event Processing Platform

Technologies Used: Java 21, Spring Boot 3, Kafka, PostgreSQL, ELK Stack, Prometheus, Grafana, Docker

- Designed and deployed a scalable, event-driven microservices architecture handling simulated high-throughput processing of **1,000+ events/second**.
- Implemented robust fault tolerance using retry mechanisms (exponential backoff) and a Dead Letter Queue (DLQ), ensuring **100% message recovery** and **zero data loss** for failed events.
- Integrated comprehensive observability via Prometheus, Grafana, and the ELK Stack to monitor **15+ JVM metrics** and real-time processing rates, accelerating issue resolution by **40%**.
- Containerized the distributed system with **Docker Compose**, achieving **<2-minute** local deployment times, and hosted APIs on Render and Railway cloud platforms.

Real-Time Chat Application

Technologies Used: Java, Spring Boot, WebSocket, MongoDB, React, Docker

- Facilitated **10K+ concurrent users** with **<100ms latency** using scalable WebSocket architecture and responsive backend design.
- Optimized **MongoDB** to handle **1M+ messages/day** with **30% faster read operations**, effectively managing high-throughput data streams.
- Improved deployment efficiency by **60%** with **Docker** and automated CI/CD pipelines.

Advanced Object Detection using SSD Algorithm

Technologies Used: Python, Tensorflow, Machine Learning

- Achieved **93% detection accuracy** across diverse object categories by developing an object detection system using the SSD algorithm and Machine Learning.
- Accelerated neural network performance, optimizing processing time by **30%** for real-time object detection.

EDUCATION

Swamy Vivekananda Institute of Technology

Bachelor of Computer Science and Engineering, CGPA - 7.74

Hyderabad, Telangana, India

Aug 2019 – June 2023

CERTIFICATIONS

- **Machine Learning** — Internshala
- **Face Recognition Application using Python** — GUVI
- **Accenture Nordics Developer** — Accenture