

Saurabh Ashok Parthe

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Software Engineer with 2+ years of experience building production-grade distributed systems focused on scalability, reliability, and high-performance backend engineering. Strong systems-first mindset with expertise in designing clean, maintainable architectures.

WORK EXPERIENCE

Skylarklabs - Software Engineer (SDE-1)

Nov 2025 - Present

- Engineered a distributed real-time processing pipeline in Go handling **1,000+ concurrent data streams with fault-isolated concurrency**, scalable AI inference orchestration, and **sub-50 ms end-to-end latency**.
- Scaled distributed AI inference services on **Kubernetes using GPU-aware autoscaling** and isolated microservice deployments to sustain high-throughput workloads without frame loss.
- Designed a low-latency adaptive data delivery and recording architecture with fault-tolerant buffering, async cloud persistence, and gap-free recovery across reconnects.** Implemented wall-clock timestamp synchronization to eliminate PTS drift, decoder failures, and recovery gaps across reconnects.
- Owned end-to-end DevOps and infrastructure pipelines** using **Docker and Kubernetes**, designing containerized deployments, horizontal pod autoscaling, and CI/CD workflows to ensure **99.9% uptime** for mission-critical distributed AI platforms.

NeoXam - Software Engineer

May 2025 - Nov 2025

- Built and shipped financial transaction microservices on Spring Boot handling settlement routing, claim generation, and automated pricing workflows via **REST APIs and Kafka event streams**.
- Designed and implemented **cost-effective trade and payment processing** by integrating external pricing/market data APIs, enabling real-time comparisons and automated claim settlement.
- Improved platform reliability** through distributed observability, automated failover workflows, and proactive production monitoring **achieving 99.99% service uptime**.

Seven Mentor And Training Pvt Ltd - Data Scientist (Internship)

Aug 2023 - Aug 2024

- Built ML prediction and recommendation systems using XGBoost, Random Forest, collaborative filtering techniques on large-scale student datasets.
- Developed end-to-end experimentation pipelines with feature engineering, hyperparameter tuning, and model evaluation.

TECHNICAL SKILLS

- Programming Languages:** Golang, Java, Python, C++, SQL, Bash
- Distributed Systems & Backend :**Microservices, Concurrent Programming, Event-Driven Architecture, REST/gRPC APIs, Distributed Systems Design, High-Performance Backend Engineering.
- Cloud & Infrastructure:** Kubernetes, Docker, AWS, Azure, Terraform, CI/CD Pipelines, Linux, Infrastructure Automation.
- Data & Messaging:** PostgreSQL, MySQL, MongoDB, Redis, Kafka, RabbitMQ, NATS.
- AI/ML Systems:** NVIDIA Triton Inference Server, TensorFlow, OpenCV, Computer Vision, Edge AI, AI Inference Optimization.
- Security & Cryptography:** AES-256-GCM, TLS 1.3, mTLS, HMAC-SHA256, Argon2, PKI, HashiCorp Vault, Adversarial ML Defense, RBAC Hardening
- Monitoring & Observability:** Datadog, ELK Stack, Distributed Logging, Telemetry, Performance Optimization

EDUCATION

- B.E (Electronics & Telecommunication Engineering)** - Pune University | CGPA : **7.92**
- Post Graduate Diploma (Artificial Intelligence)** - Centre for Development of Advanced Computing (C-DAC)

Projects | [Github](#) | [Portfolio](#)

1] High-Scale Distributed Chat Infrastructure

- Built a distributed WebSocket chat backend in Go with Redis-backed shared session state and NATS-based cross-node message.

2] Financial Event Processing Engine

- Engineered a high-throughput financial order processing engine with event sourcing over Kafka and price-time priority matching.

3] Autonomous Reliability Intelligence Platform

- Developed an autonomous distributed monitoring platform using anomaly detection and time-series forecasting for proactive failure prediction.

4] Multi-Agent Geopolitics Intelligence System

- Engineered a multi-agent LangGraph pipeline for real-time geopolitical intelligence using Claude tool_use, FAISS semantic search, spaCy NER, and sentiment analysis across 10+ live news sources.