

Prabhat Kumar

Senior Software Engineer

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Professional Summary

Senior Software Engineer with 8+ years building distributed, cloud-native backend platforms across healthcare, finance, and payments. Experienced in designing highly available services and low-latency systems, including reducing API p95 latency from 7–8s to ~300ms and driving security modernization across 2,000+ internal teams and millions of cloud instances. Strong expertise in concurrency, multithreading, service isolation, caching, failover, and production performance engineering.

Education

Indian Institute of Technology (IIT) Kharagpur

Bachelor of Technology (Honors)

2018

Technical Skills

AI & Agentic Engineering: Reusable Codex Skills, LLM-powered development workflows, Agentic workflows, AI-assisted code review & test generation, Developer workflow automation

Languages: Java, C++, SQL, Python, R

Backend & Distributed Systems: Concurrency, Multithreading, Spring Boot, Micronaut, Microservices, REST, GraphQL, Distributed Systems

Performance & Reliability: Low Latency, Caching, High Availability, Failover, Load Balancing

Cloud & DevOps: AWS, GCP, OCI, Docker, Kubernetes, Terraform, IaC and CI/CD

Data & Storage: OpenSearch, Oracle, MySQL, Snowflake, Redis, Hive, HDFS, Presto

Messaging & Streaming: Apache Kafka, ActiveMQ

Observability & Tooling: Grafana, Splunk, CloudWatch, Git, New Relic, Datadog, Telemetry

Professional Experience

Oracle

India

Senior Software Engineer

Nov 2023 – Present

- Built 10+ Codex Skills automating migration validation, data troubleshooting, & requirements-driven PR reviews across code, JIRA, and Confluence, reducing engineering effort by ~6 hours per engineer weekly
- Redesigned OpenSearch data architecture using 3 specialized indexes and precomputed aggregates, reducing p95 API latency from 7–8s to ~300ms while scaling read-heavy analytical workloads
- Architected Micronaut-based backend services powering 12 analytical views for 150+ healthcare clients, enabling thousands of providers to access actionable insights
- Built a distributed caching layer using OpenSearch-backed materialized responses with asynchronous cache population, compression, deterministic cache keys, and cluster-level replication
- Led a 4-engineer team in migrating OCI IMDS from SSRF-vulnerable APIs to secure REST interfaces, improving the security of millions of cloud instances across 2,000+ teams

Goldman Sachs

India

Associate Software Engineer

Mar 2020 – Oct 2023

Investment Banking · Data & Lending Platforms

- Developed service isolation algorithms in Java to decouple dependencies in lower environments, restoring usability of 2 non-production environments and improving team productivity
- Spearheaded the development of GraphQL APIs for the Notional Pooling platform, enabling multi-bank liquidity management across 50+ currencies for 100+ banking clients
- Led the migration from REST to GraphQL APIs, eliminating data overfetching and underfetching while reducing API footprint and maintenance overhead by 50%

Analyst Software Engineer

- Engineered high-availability architecture for HDFS & Presto using active-standby NameNodes with ZooKeeper-based leader election & multiple load-balanced coordinators, achieving 99.9% availability
- Orchestrated a new data pipeline that reduced data onboarding time from days to hours, improving end-to-end onboarding efficiency by 70%
- Built and scaled distributed data-processing infrastructure using Hive, HDFS and Presto, enabling federated queries across heterogeneous data sources while reducing storage duplication by 40%

Visa Inc

India

Software Engineer

Jul 2018 – Dec 2019

- Engineered and launched cloud-native microservices for the Visa Web Visualization Platform, enabling 30% faster application deployment cycles (build, deploy and test) at scale
- Designed event-driven microservices using ActiveMQ virtual topics, enabling concurrent processing across 5+ event streams while improving service decoupling and system scalability
- Containerized and deployed 5+ microservices on Kubernetes, enabling scalable CI/CD-driven releases
- Integrated Hibernate, JPA, HikariCP, and Git for persistence, performance, and version control

Achievements

- Awarded Employee of the Quarter at Oracle for technical leadership, mentorship, and security initiatives
- Promoted from Analyst to Associate Software Engineer at Goldman Sachs in recognition of delivering high-impact solutions across data and lending platforms