Priyansh Sharma

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Professional Experience

Thales — Noida, India

Software Engineer II — *Jan 2024 – Present*

Software Engineer I — *Aug 2023 – Jan 2024*

Software Engineer Intern — *Feb 2023 – Aug 2023*

- Independently architected and built a multithreaded, distributed billing engine from a high-level business requirement; designed a four-phase execution pipeline (Mapper, Reducer, Finalizer, Reporting) with parallel sharding, Cassandra-backed worker coordination, durable synchronization barriers, and crash recovery.
- Engineered fault-tolerant billing with lease-based recovery, durable checkpoints, and idempotent retries for exactly-once billing outcomes; validated pod-crash recovery, implemented an $O(N \log K)$ K-way merge for chronological tiered pricing, and processed 1M+ events spanning 12 months in 4m 37s during production-like lab testing.
- Initiated and led a Fleet orchestration redesign after identifying systemic issues across 10+ L3 incidents; architected a deterministic planner–executor framework to eliminate known duplicate-result and event-loss scenarios across tenants, preserving backward compatibility and adding 75+ previously uncovered behavioral tests.
- Architected and built an AI code-intelligence platform and persistent-context memory system (2nd Brain Concept) to address context loss in large codebases; using DDD-based code structuring, custom @ai annotations, package-path metadata, AST-aware indexing, Qdrant/Neo4j retrieval, and MCP tools to preserve architectural knowledge and support AI-assisted development, with adoption by 4 AI taskforce engineers.
- Reduced end-to-end regression execution time by approximately 90% (30–40 minutes to under 4 minutes) across 310+ Karate scenarios by enabling parallel execution, isolated test data, and reusable setup/teardown; integrated into CI/CD and adopted by development, QA, and production-lab testing teams for faster validation.
- Designed and implemented stateful backend workflows for next-generation eSIM provisioning, including request/result processing, polling, proof-of-receipt handling, and per-card protocol routing while maintaining backward compatibility across protocol generations.

Vinsol — Delhi, India

Software Development Engineer Intern — *Jun 2022 – Jul 2022*

- Contributed to Ruby on Rails backend development and regression test automation using Selenium and Cucumber, supporting application functionality and automated validation.

Projects

Job Find Helper – AI Career Intelligence | *Python, FastAPI, React, ML, NLP, LLMs*

- Architected an AI-powered job platform aggregating and deduplicating live openings across company career portals, with automated synchronization and classification into internship, entry-level, and experienced roles.
- Designed a hybrid recommendation engine combining semantic embeddings, candidate skills, recruitment-history signals, and LLM-based skill-gap explanations; evaluated personalized rankings using Precision@K and NDCG@K.

Education

Jaypee Institute of Information Technology — Noida, India

B.Tech in Computer Science and Engineering | CGPA: 8.5/10 — *2019 – 2023*

Technical Skills

Languages: Java (8/17), C++, Python, SQL
Backend & Databases: Quarkus, REST APIs, Microservices, Cassandra, MySQL
Infrastructure: Docker, Kubernetes, Helm, Git, CI/CD
AI Engineering: MCP, Qdrant, Neo4j, tree-sitter, Vector Embeddings, Semantic Retrieval
Testing: JUnit, Mockito, Karate, Cucumber

Achievements

- Google Kick Start: Global Rank 1,645 (2022, Round B); Google Code Jam: Global Rank 2,986 (2022, Round 1C).
- Meta Hacker Cup: Global Rank 2,826 (2021, Round 2); GATE: All India Rank 3,933.