Rohan Kumar

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Education

SRM Institute of Science and Technology, Kattankulathur — Aug 2022 – May 2026
B.Tech in Computer Science Engineering — CGPA: 9.0/10

Experience

AI Engineer — Sep 2026 – Present
Mercor, Remote
- Translate client requirements for a cold-chain application into defined features, implementation tasks, and execution priorities.
- Use AI-assisted development and prompt engineering to implement, debug, refactor, and complete full-stack features.
- Investigate application issues, analyze failure patterns, validate fixes, and improve reliability and production readiness.
- Coordinate with clients to clarify requirements, resolve implementation blockers, communicate solutions, and support timely delivery.
- Document tasks, technical changes, and issue resolutions; share progress updates to improve workflow visibility and handoffs.

Software Engineer Intern — Jun 2024 – Jul 2024
C-DAC, Patna
- Built Python health-check workflows across six microservices, reducing mean time to detect production issues to under 10 minutes.
- Created reporting dashboards and operational monitoring utilities, improving stakeholder visibility and reducing manual effort by 20%.
- Developed validation utilities, deployment documentation, and operational runbooks to standardize testing, releases, and post-deployment support.
- Collaborated with engineering teams to investigate operational issues, validate fixes, identify workflow gaps, and improve process automation.

Software Engineer Intern — Jan 2024 – Jun 2024
ZeroMeat, Chennai
- Gathered requirements with product managers, developers, and business stakeholders, translating business needs into technical solutions.
- Designed business rules, authentication workflows, and role-based access controls for secure enterprise applications.
- Analyzed PostgreSQL schemas, indexes, and SQL queries to identify bottlenecks, reducing p99 API latency from 480ms to 210ms.
- Supported workstream execution across Agile development, testing, deployment, issue resolution, and production support.
- Prepared technical documentation, API specifications, deployment notes, and testing artifacts for consistent execution and handoffs.

Software Engineer Intern — Jun 2023 – Jul 2023
BiharTimes, Patna
- Developed REST APIs and normalized PostgreSQL schemas for scalable business applications.
- Performed API validation, functional testing, and user acceptance testing before production releases.
- Coordinated with cross-functional stakeholders to clarify requirements, improve workflows, and reduce scope changes by 30%.

Projects

Pixovid – Generative Media SaaS — 2026
React, Vite, Express, Prisma, PostgreSQL, Docker
- Built a modular SaaS platform by translating business requirements into backend services and user workflows.
- Developed reporting workflows, relational data models, authentication, and integration tests across Dockerized services.

Stock-Agent-Ops — 2026
Python, LangGraph, FastAPI, Docker, Redis, MLflow
- Built a stock-analysis data pipeline using structured market data, multi-step reasoning, and automated business reporting.
- Designed stateful workflows, tool execution, checkpointed state, API services, Redis-backed processing, and containerized deployment.

AI Interviewer — 2026
TypeScript, Node.js, Prisma, PostgreSQL
- Developed a modular interview platform using REST APIs and normalized relational database models.
- Implemented backend validation, session management, and automated testing for reliable deployment.

Technical Skills

Operations & Program Execution: SQL-based performance analysis, operational monitoring, KPI tracking, reporting dashboards, process improvement, workflow automation, root-cause analysis, requirements gathering, execution tracking, cross-functional coordination, stakeholder communication, status reporting, issue escalation
Programming: Python, SQL, Java, JavaScript, TypeScript, C/C++
AI / LLM Engineering: RAG, agentic workflows, LLM APIs, tool calling, structured outputs, prompt engineering, embeddings, vector search, AI evaluation, guardrails, MCP
AI Frameworks: LangGraph, LangChain, FastAPI, MLflow
Backend & Databases: PostgreSQL, Redis, Flask, Node.js, REST APIs, Spring Boot, Prisma