

Bharat Jain

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PROFESSIONAL SUMMARY

Computer Science undergraduate specializing in **Applied AI**, **LLM System Integration**, and **Backend Engineering**. Experienced in architecting agentic workflows, Retrieval-Augmented Generation (RAG) pipelines, and distributed APIs using **Python**, **Java**, and **PostgreSQL**. Combines modern AI toolchains with strong core software engineering foundations.

EDUCATION

Oriental Institute of Science and Technology, Bhopal
Bachelor of Technology in Computer Science & Engineering

July 2022 – June 2026

TECHNICAL SKILLS

AI & Machine Learning: Python, LLM APIs (Gemini, OpenAI), LangChain, RAG Pipelines, Vector DBs (ChromaDB, FAISS), Prompt Engineering

Languages & Databases: Python, Java, SQL, PostgreSQL, Redis

Backend & APIs: Core Java, RESTful APIs, JDBC, Java Collections Framework, Multi-threading

Developer Tools: Git, GitHub, Maven, Postman, Docker, IntelliJ IDEA, VS Code

Core CS Foundations: Data Structures & Algorithms, Object-Oriented Programming (OOP), DBMS, Operating Systems, Computer Networks

PROJECTS

APIC: Autonomous Prioritization & Intelligence Control | *Java, PostgreSQL, Redis, Gemini API, ReAct, RESTful APIs*

- Architected an intelligent API gateway featuring a Three-Tier Hybrid Architecture (Redis enforcement, Java telemetry, and Gemini LLM reasoning) for context-aware traffic orchestration.
- Engineered an autonomous decision engine using the **ReAct (Reason + Act)** paradigm with Gemini API to evaluate real-time system metrics, SLA tiers, and traffic patterns for proactive load shedding.
- Utilized **PostgreSQL** for persistent user SLA tiers and API key management, paired with a high-throughput **Redis Token Bucket** cache for sub-millisecond fast-fail enforcement.

Enterprise Knowledge Assistant (RAG Pipeline) | *Python, LangChain, ChromaDB, FastAPI, Streamlit, LLM APIs*

- Built an end-to-end **Retrieval-Augmented Generation (RAG)** system in Python to query enterprise documentation with strict source attribution and contextual grounding.
- Implemented semantic text chunking and dense vector indexing in **ChromaDB**, achieving low-latency top-*k* similarity search and eliminating LLM hallucinations.
- Developed asynchronous RESTful endpoints using **FastAPI** and designed an interactive dashboard with **Streamlit** for real-time document querying.

PROFESSIONAL EXPERIENCE

Saksham Digital Technology
Full-Stack Web Development Intern

Dec. 2023
Bhopal, India

- Developed responsive, cross-browser web interfaces using HTML5, CSS3, and Tailwind CSS, improving client-side form validation accuracy.
- Utilized Git and GitHub for team branch management, collaborative version control, and sprint workflows.

CRISP India
Java & Software Engineering Trainee

Aug. 2023
Bhopal, India

- Completed intensive Core Java (J2SE) training focusing on OOP, Exception Handling, Collections Framework, and Multithreading principles.
- Engineered modular Java console applications and enhanced debugging workflows for complex data structures.

LEADERSHIP & ACTIVITIES

ACM Student Chapter, OIST
Chapter Chair (Former Secretary & Treasurer)

Feb. 2025 – Jun. 2026
Bhopal, India

- Led cross-functional teams to organize technical workshops, hackathons, and networking initiatives for 30+ chapter members.
- Managed chapter budgeting, operational sponsorships, documentation, and campus outreach strategy.

The Pensive Society (Literature & Book Club)
Founder & President

Mar. 2026 – Jun. 2026
Bhopal, India

- Founded and scaled a campus literary community focused on critical analysis, rhetoric, and collaborative technical-philosophical debates.