

RISHABH DIDWANIA

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SUMMARY

Software Engineer with 2+ years of experience **building and shipping production AI applications** across LLMs, RAG, NL2SQL, agentic workflows, semantic search, tool calling, embeddings, and vector retrieval. Strong backend foundation in **Python, FastAPI, Node.js, PostgreSQL, REST/GraphQL APIs**, with hands-on experience optimizing AI systems for latency, retrieval quality, grounded responses, and production reliability.

EXPERIENCE

MAQ Software | *Software Engineer 1* **Sept 2024 – Present**

- Built a full-stack analytics application using **Python/FastAPI**, React.js, and TypeScript with **NL2SQL** query generation, reducing query response time from **10s to under 3s**.
- Led modernization of an enterprise conversational AI platform serving **2K+ monthly users**; refactored 10K+ lines of JavaScript and implemented caching, state management, and multi-turn conversational workflows.
- Maintained **Node.js/Express** services supporting crawler automation, QnA training, validation pipelines, and reliable content ingestion for AI-enabled applications.

Sense Original Technologies Pvt Ltd | *Software Engineer* **May 2024 – Sept 2024**

- Developed a scalable lead management platform using **React.js, JavaScript, REST APIs**, role-based dashboards, and workflow automation, improving lead tracking efficiency by **30%**.
- Built reusable frontend components and collaborated with product/design stakeholders to ship production features through iterative release cycles.

PROJECTS

Conversational AI Chatbot System | *RAG, GraphQL, PostgreSQL, Azure* **Mar 2025 – Jul 2025**

- Designed and deployed a **RAG pipeline** with GraphQL and PostgreSQL, enabling vector-based semantic search across **2K+ policy documents**.
- Improved retrieval quality through **embedding tuning, hybrid search, relevance re-ranking, and citation-aware responses**; built multi-turn conversational workflows with Redux and Apollo Client.

M365 Setup Expert Bot | *Python, Azure AI Search, RAG, LLM Evaluation* **Dec 2024 – Jun 2025**

- Built an enterprise GenAI assistant using **RAG** to unify documentation, meeting content, and transcripts for internal knowledge discovery.
- Engineered hybrid retrieval using **Azure AI Search**, vector indexing, semantic re-ranking, query refinement, and citation grounding to improve answer reliability.
- Implemented an evaluation workflow tracking **groundedness, relevance, and response quality** for continuous RAG quality assessment.

Multi-Source Research Agent | *RAG, Vector Search, Tool Calling, Gemini API* **Nov 2024 – Jan 2025**

- Developed a research assistant using multi-source **RAG pipelines**, GraphQL, and vector search for automated information retrieval and synthesis.
- Implemented **tool calling, task orchestration, and result aggregation** for automated multi-source research and report generation.

TECHNICAL SKILLS

AI & GenAI: LLMs, Generative AI, RAG, AI Agents, NL2SQL, Semantic Search, Embeddings, Tool Calling, Prompt Engineering, Hybrid Search, Re-ranking, LLM Evaluation

AI Frameworks/APIs: LangChain, OpenAI API, Gemini API, Azure AI Search, FAISS, ChromaDB, Vector Databases

Backend & Data: Python, FastAPI, Node.js, Express.js, PostgreSQL, GraphQL, REST APIs, .NET Framework

Cloud & Engineering: Azure, AWS, Docker, Git/GitHub, CI/CD, Swagger/OpenAPI

Software Engineering: TypeScript, JavaScript, React.js, Redux, Next.js

ACHIEVEMENTS & PUBLICATIONS

- Chapters published in internationally recognized books: *Future Ahead for Supply Chain Management* ([Ch.4](#)), *Application of Robotics in Manufacturing Industry* ([Ch.15](#)), *Role of AI in Supply Chain Management and Bioinformatics Sector* ([Ch.7](#)), and one ACTA Editorial — [Link](#).
- Secured **1st Position** in FSM Hackathon at FORE School of Management for the project *CareerDristi.ai*.

Education

Degree	Institute	Board/University	CGPA/Percentage	Year of Completion
B.Tech CSE	Pranveer Singh Institute of Technology, Kanpur	AKTU	8.52	Nov 2021 - Sept 2025
Intermediate	Dr. Virendra Swarup Education Center	ISC	91.00%	2021