

Bishant Rajbanshi

Full-Stack Developer / AI Engineer

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Summary

Final-year Computer Science student who builds and ships full-stack applications (Next.js, Node.js) and LLM-powered systems, including RAG and GraphRAG pipelines with LangChain, Neo4j, and FastAPI. Focused on agentic AI and turning research ideas into production-ready products.

Technical Skills

- **Languages:** JavaScript, TypeScript, Python, HTML5, CSS3, SQL
- **Frontend:** Next.js, React, Tailwind CSS, Responsive Design
- **Backend:** Node.js, Express.js, FastAPI, REST API
- **Databases:** MongoDB, PostgreSQL, MySQL, Neo4j, Firebase
- **AI / LLM:** RAG, GraphRAG, LangChain, CrewAI, Ollama, FAISS, Sentence Transformers, Vector Search, NLP
- **Tools & DevOps:** Git, GitHub, Docker, CI/CD, pytest, Vercel, Postman, Linux

Projects

ArenaPro – Futsal Court Booking System

arena-pro-chi.vercel.app

- Designed and developed a full-stack futsal court booking platform as a solo project using Next.js (frontend) and Express.js (backend).
- Implemented real-time court availability, booking management, and secure user authentication with role-based access.
- Built an admin dashboard for managing reservations, schedules, and court data, replacing manual bookings with a seamless digital workflow.

Nepal Constitution AI

Python, Neo4j, LangChain, Ollama, FastAPI

- Built a GraphRAG Q&A assistant for Nepal's Constitution — LLM-extracted knowledge graph in Neo4j covering all 33 Fundamental Rights articles, every answer cited to source articles.
- Hybrid retrieval: 768-dim nomic-embed-text embeddings in a Neo4j vector index with top-5 entity matching and graph traversal.
- Fully local/offline (qwen2.5:7b via Ollama); FastAPI backend, Docker Compose, 11 pytest tests.

RAG: Question Answering System

Python, Sentence Transformers, FAISS, Ollama

- Developed an end-to-end Retrieval-Augmented Generation (RAG) application in Python using Sentence Transformers, FAISS, and Ollama.
- Built a semantic retrieval pipeline with document chunking, embedding generation, vector indexing, and top-k similarity search.

Education

University of Wolverhampton (via Herald College Kathmandu)

Bachelor's Degree in Computer Science

Nov 2023 – Nov 2026

Kathmandu, Nepal

Sagarmatha Secondary Boarding School

+2 Science

2020 – 2022

Biratnagar, Nepal

Certifications

- Agile Scrum Foundation — Simplilearn May 2025
- DevOps & Computer Networks — Herald College Kathmandu Jul 2025
- Agent Team Orchestration with CrewAI — Simplilearn Jul 2026
- AWS for Beginners — Simplilearn Jul 2026
- Machine Learning Using Python — Simplilearn Jul 2026