

RITIK

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LinkedIn — GitHub — Portfolio

PROFESSIONAL SUMMARY

Motivated and detail-oriented Software Engineering student with a robust foundation in Full Stack Development, specializing in the **MERN Stack** and **Next.js**. Proficient in modern cloud technologies including **Docker**, **Kubernetes**, and **AWS**. Experienced in building AI-integrated applications and decentralized solutions (Web3). Possesses strong problem-solving skills with a focus on DSA and aptitude. Seeking a challenging developer role to leverage architectural skills and contribute to scalable software solutions.

EDUCATION

Bachelor of Computer Applications (BCA)
Specialization in Software Engineering

Expected Graduation: 2027
New Delhi, Delhi

TECHNICAL SKILLS

Frontend Development: React.js, Next.js, TypeScript, JavaScript (ES6+), HTML5, CSS3, Tailwind CSS

Backend Development: Node.js, Express.js, RESTful APIs, WebSockets

DevOps & Cloud: Docker, Kubernetes (Basic), AWS (EC2/S3 - Basic), CI/CD Concepts

Emerging Technologies: GenAI, PromptEngineering

Core Concepts: Data Structures & Algorithms, OOPs, Aptitude

PROJECTS

Sync – Multi-Agent AI System | Live | GitHub

- Engineered a hierarchical AI architecture simulating a corporate structure, featuring a "Team Lead" agent that autonomously breaks down prompts and assigns tasks to "Employee" agents.
- Implemented complex state management to handle asynchronous communication between multiple AI agents in real-time.
- Designed a clean, responsive dashboard allowing users to visualize the task delegation and execution process.
- Tech Stack: Next.js for server-side rendering, TypeScript for type safety, and custom LLM integration.

Perplexity Clone – AI Search Engine | Live | GitHub

- Developed a production-grade AI search engine capable of browsing the internet and synthesizing answers with accurate citations (RAG - Retrieval Augmented Generation).
- Optimized query response time by implementing efficient API handling and edge caching strategies.
- Created a modern, high-performance user interface focused on accessibility and user experience (UX).

Moody Music – Sentiment Based Streaming | Live | GitHub

- Built an intelligent music recommendation system that analyzes user input (text/mood) to suggest curated playlists.
- Integrated Sentiment Analysis algorithms to map emotions to specific musical genres, tempos, and keys.
- Utilized third-party Music APIs to fetch metadata and stream audio previews directly within the application.

VOCATIONAL TRAINING

Job Ready Cohort 2.0

Sheriyans Coding School

Remote

Full Stack Web Development Trainee

- Completed an intensive, project-based bootcamp focusing on the MERN stack and advanced JavaScript ecosystems.
- Gained hands-on experience in containerization using **Docker** and basic orchestration with **Kubernetes**.
- Collaborated on real-world problem statements, implementing best practices in code quality and version control (Git).
- Strengthened logical thinking through dedicated sessions on Data Structures and Algorithms (DSA).

INTERESTS

Traveling (Cultural Exploration), Cooking