Ritesh Kumar Giri

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PROFILE

Passionate Computer Science Engineer specializing in Full-Stack Development, Artificial Intelligence (AI), and Machine Learning (ML). Proficient in architecting responsive, data-driven web applications and intelligent automation tools. Seeking opportunities as a Software Engineer or AI Developer to build scalable, innovative products.

EDUCATION

Babu Banarasi Das Northern India Institute of Technology   Lucknow, India
Bachelor of Technology in Computer Science & Engineering   *2022 – Present*

TECHNICAL SKILLS

Languages: C++, TypeScript, JavaScript, Python, SQL
Frontend: React.js, Redux Toolkit, Next.js, HTML5, CSS3, Tailwind CSS, Framer
Backend: Node.js, Express.js, Prisma, REST APIs, Socket.IO, Microservices
Databases: PostgreSQL, MongoDB, Pinecone, Redis
AI/ML: LangChain, Google Gemini API, Groq SDK
DevOps & Tools: Git, Docker, Kubernetes, CI/CD (GitHub Actions), Postman, VS Code

PROFESSIONAL EXPERIENCE

Freelance Web Developer   Jan 2025 – Present
NextGen Fusion   *Remote*
- Develop and maintain 50+ live WordPress websites and 10+ MERN Stack applications, ensuring scalable backend architectures.
- Orchestrate CI/CD pipelines using Vercel, Netlify, Render, AWS, and Hostinger for automated delivery.
- Deploy containerized production environments using Docker and Kubernetes to ensure system consistency.
- Execute end-to-end solutions including UI/UX design, secure backend APIs, and complete hosting setup.

PROJECTS

Tat Vivah — Multi-Vendor Wedding E-Commerce Platform   Jan 2026 – Feb 2026
- Engineered a scalable multi-vendor E-Commerce platform using TypeScript, Node.js, PostgreSQL, and Prisma.
- Enforced Role-Based Access Control (RBAC) with JWT authentication for Buyers, Sellers, and Admins.
- Formulated real-time inventory management and atomic checkout workflows to prevent overselling.
- Optimized system performance by integrating Redis caching and adopting a layered monolith architecture.
- **Live:** tatvivahtrends.com   **GitHub:** Repository

Explore Fusion — AI-Powered Travel Microservices App   Dec 2025 – Dec 2025
- Architected a comprehensive travel ecosystem on a microservices architecture using Node.js and Gateway pattern.
- Embedded Groq AI SDK to power an AI Trip Planner and Travel Buddy Matcher with personalized itineraries.
- Enabled real-time bidirectional messaging using Socket.IO and React (Vite) for community interactions.
- Constructed an Instagram-style social feed, secure JWT auth, and ImageKit for optimized media handling.
- **Live:** explorefusion.online   **GitHub:** Repository

JARVIS AI — Full-Stack AI Chat Platform   Sept 2025 – Dec 2025
- Programmed an AI-powered chat application featuring secure JWT authentication and real-time messaging.
- Synthesized long-term conversational memory utilizing Pinecone vector database and Google Gemini API.
- Established secure REST APIs with Node.js/Express and integrated context-aware AI responses.
- **Live:** jarvisai.riteshgiri.dev   **GitHub:** Repository

CERTIFICATIONS & ACHIEVEMENTS

Job Ready Cohort (Sheryians Coding School): Intensive Full-Stack training covering DSA, System Design, and DevOps (Docker, CI/CD).
Data Science - AI & DSA (ShapeMySkills): Completed a 90-hour training program focusing on AI algorithms, Machine Learning, and Python.
Achievements: 1st Prize Winner, Utkarsh 2022 Photography Competition; Cleared Indian Air Force Exam.
Leadership: Coordinator, Discipline Team at BBDNIIT.