RITU RAJ
Full Stack AI Systems Engineer (MERN) | Platform Architecture | Technical Leadership

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📍 Sec-63, Noida, UP

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SUMMARY

Fueled by a deep passion for AI-driven systems and over 4.5+ years of experience in MERN stack and Agentic AI, I'm driven by the thrill of pushing boundaries and pioneering what's next. I lead teams with a focus on creating intelligent, scalable solutions that not only meet today's needs but also anticipate the challenges of tomorrow. My approach is rooted in continuous optimization and a relentless pursuit of excellence, evident in projects where I've drastically reduced system load times and automated critical workflows, enhancing both performance and user satisfaction. For me, technology isn't just a tool—it's a catalyst for transforming the future through intelligent automation.

EXPERIENCE

Full Stack MERN Developer
Xotiv Techologies

📅 08/2022 - Present 📍 Sec-62, Noida, UP

- Led multi-disciplinary 21 developers team to design, develop, and launch online e-commerce store; prioritized and resolved 150+ new features and bug fixes
- Spearheaded a cross-functional team (Technology, Business Development, Management) to implement new ERP system; successful adoption accelerated revenue growth by 25% in 1 year.
- Created robust CI/CD pipelines using Jenkins and Ansible, automating deployments which decreased manual intervention by 40%,
- Applied expertise in SQL Server to optimize database performance and achieve a 30% cost-saving in resource allocation.
- Promoted within 6 months due to strong performance and organizational impact
- Led development of Next.js + Node.js–based AI-driven platforms, integrating Agentic AI workflows into business operations and customer-facing systems.
- Built LLM-powered services using LangChain and LangGraph for decision support, content generation, and workflow automation.
- Optimized service layers, request queues and MongoDB data model to handle request load of 74,000-96,000/sec during flash sales.
- Achieved a Lighthouse score of 100/100 on our frontend.

Full Stack Developer
YAV Technologies

📅 08/2021 - 07/2022 📍 Bengaluru, Karnataka

- Used various ideas from distributed computing, large-scale design, real-time data processing, data storage, ML, and AI to solve challenging dataset problems.
- Integrated React components into existing applications to improve user experience and page performance by over 30%
- Contributed to a 30% increase in application resilience by implementing Docker and Kubernetes in production environments
- Spearheaded the migration of a large database from SQL to a NoSQL architecture, enhancing scalability and flexibility
- Implemented RESTful APIs and integrated various third-party APIs such as Google Maps, Map box and payment gateways.

PROJECTS

AI-Driven E-Commerce Optimization System (MERN + Agentic AI)

Architected and Operationalized a Production-grade, Multi-agent AI platform that autonomously optimizes pricing, inventory, merchandising, fraud detection, and operations for an e-commerce system, replacing manual business decision loops with self-learning automation.

- Built production-grade multi-agent AI automating pricing, inventory, fraud, and Operations.
- Designed planner–executor–critic orchestration with dynamic spawning and failure recovery.
- Implemented RL models optimizing revenue, margins, and stock-out risk.
- Developed hybrid RAG (vector DB + knowledge graph) for multi-hop commerce reasoning.
- *Achieved 21–27% revenue uplift, +22% conversion, −35% stock-outs, −40% fraud loss.*

PROJECTS

Autonomous Digital Enterprise Platform (Agentic AI + Cloud + MLOps)

Architected and Operationalized a Production-grade, self-running Digital Enterprise where coordinated AI agents autonomously perform business strategy, software engineering, marketing, financial planning, and operational optimization using closed-loop learning and governance controls.

- Built Next.js + Node.js–based autonomous multi agent platform executing strategy,engineering, growth,and finance workflows end-to-end.
- Designed fault-tolerant agent orchestration with dynamic task decomposition and recovery using event-driven Node.js microservices.
- Built real-time dashboards in Next.js with WebSockets showing agent decisions, budgets, ROI metrics, and approval workflows.
- Deployed scalable GPU-enabled AI services on Kubernetes with Redis memory, vector DB, and KPI-driven continual learning loops.

Impact: Drove +28% revenue, 3× faster delivery, 65% faster decisions, and 25% lower infra cost.

KEY ACHIEVEMENTS

♥ **Winner — Next-Gen Autonomous AI Systems Challenge 2025**

Awarded for building a fully autonomous,self optimizing AI system capable of replacing manual business decision pipelines using multi-agent orchestration with closed-loop learning.

♛ **Employee of the Year – AI & Platform Engineering**

Consistently rated highest for shipping scalable GenAI and cloud-native systems under tight production constraints.

✓ **National Speaker on Modern AI + Full-Stack Engineering**

Presented on Next.js, distributed systems, and Agentic AI, helping teams move from demos to production AI at a National Conference attended by **10000+ participants**.

EDUCATION

Master of Computer Applications
Monad University, Uttar Pradesh

📅 06/2019 - 07/2021 📍 Ghaziabad, Uttar Pradesh

SKILLS

LangChain | LangGraph | RAG | LLMs (OpenAI/Claude/ LLaMA)

Next.Js | Node.js | JavaScript | TypeScript | Express.js

MongoDB | Vector DB | PostgreSQL (pgvector) | Redis

Docker | Kafka | AWS (EC2, EKS, S3, RDS) | Python

Transformers (HuggingFace) | TensorFlow

English ●●●●●
Nativ

Hindi ●●●●●
Proficient