

Ajay Kumar Saini

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SUMMARY

Full-Stack Developer who builds production dashboards and ERP systems with Next.js, React, TypeScript, Node.js, Prisma ORM, and PostgreSQL. Strong in REST API design, RBAC authentication, third-party API integration (Google Drive, Gmail, WhatsApp Cloud), AI/LLM automation, Docker, and AWS CI/CD.

EDUCATION

Indian Institute of Technology (IIT) Patna Patna, Bihar, India
B.Tech in Metallurgical and Materials Engineering | CPI: 7.82 Aug 2023 – Present
Relevant Coursework: Data Structures & Algorithms, DBMS, Machine Learning, OOP

TECHNICAL SKILLS

Languages: C, C++, Python, JavaScript, TypeScript, SQL, HTML5, CSS3
Frontend: React, Next.js (App Router), Tailwind CSS, Redux Toolkit
Backend: Node.js, Express.js, REST API Design, WebSockets, Prisma ORM, Authentication (JWT, RBAC)
Databases: PostgreSQL, MySQL, MongoDB, Database Design, Query Optimization
APIs & Integrations: Google Drive API, Gmail API, WhatsApp Cloud API, Zoho API, LLM/Groq & OpenAI APIs, Webhooks
Cloud & DevOps: Docker, Git, GitHub, AWS (EC2/S3), Vercel, CI/CD, Postman, Linux
Concepts: Full-Stack Development, Dashboard/ERP Development, API Integration, Sync Logic, Workflow Automation, System Design

EXPERIENCE

METNMAT Innovations Pvt. Ltd. Remote / India
Full Stack Developer Intern Jan 2025 – Present

- Shipped a production ERP dashboard on Next.js, TypeScript, Node.js, Prisma, and PostgreSQL across 7 modules: products, enquiries, quotations, orders, invoices, inventory, and tasks.
- Integrated WhatsApp Cloud API, Gmail API, and Google Drive API for messaging, email-based OTP two-factor login, and product media sync.
- Built a 4-stage enquiry-to-invoice pipeline with server-side PDF/DOCX generation, RBAC-protected REST APIs, and idempotent dry-run sync over a 150+ product catalog.

Docyt India Pvt. Ltd. Remote
AI/ML Intern Aug 2025 – Sep 2025

- Engineered EDA and preprocessing pipelines and benchmarked ML models, cutting training overhead 28% and improving KPI alignment 11.5%.
- Standardized feature-engineering and experiment-tracking workflows, accelerating model iteration 20%.

Indian Institute of Technology Jodhpur Jodhpur, India
Research Intern May 2025 – Jul 2025

- Simulated hot tearing in Al-206 with the CRC criterion, isolating a critical solid-fraction range of 0.88–0.96.
- Validated predictive models against SEM/XRD analysis, improving casting yield 8.4%.

PROJECTS

METNMAT Operations Dashboard — AI-Powered ERP & Product Automation GitHub
Next.js, TypeScript, Node.js, Prisma, PostgreSQL, Google Drive API, Gmail API, WhatsApp Cloud API, LLM APIs 2025

- Architected category- and product-wise Google Drive folder mapping, binding each product's media to its PostgreSQL record through two-way sync.
- Added AI/LLM-assisted description and price-research workflows with confidence scoring, dry-run mode, and audited upserts that protect internal pricing.

Questivo — AI-Driven Assessment & Real-Time Streaming GitHub
React, Next.js, Node.js, Express.js, Prisma, PostgreSQL, WebSockets, Docker, AWS, Groq SDK Jan 2026

- Built an AI assessment engine with the Groq SDK, using full-duplex WebSocket streaming and Redis queues to hold transaction isolation under 500+ concurrent requests.
- Containerized with Docker and deployed via CI/CD on AWS EC2/S3 for scalable infrastructure.

POSITIONS OF RESPONSIBILITY

Anwasha (Cultural Fest, IIT Patna) Patna, India
Technical Lead & Sub-Coordinator (Web & Development) Dec 2024 – May 2026

- Architected the Next.js and PostgreSQL platform supporting 3,000+ active festival users.

E-Cell & Celesta (IIT Patna) Patna, India
Head of Sponsorship & RSP Management Aug 2024 – Apr 2026

- Managed corporate partnerships and cross-functional event operations for the annual techno-management fest.

ACHIEVEMENTS & CERTIFICATIONS

- Selected for the **Data & AI Operations Internship** at Grindwell Norton Limited (Saint-Gobain Group).
- Solved **650+ algorithmic problems** across LeetCode and competitive programming platforms.
- Secured **Top 2%** of **1.2 Million+** candidates in JEE Advanced 2023.
- Full-Stack AI Engineer: ML Foundations & Secure Python/Django** — Udemy.