Manish Kumar Saw

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Summary

Full-stack developer and Computer Science graduate who ships production web applications end to end, from OAuth-secured backends and real-time WebSocket systems to performance-optimised React/Next.js frontends serving 8,000+ users.

Experience

Full-Stack Developer — SlidesAI, Remote Feb – June 2026

- Owned the full-stack build of SlidesAI's product launch website from architecture through deployment, delivering a MERN-stack platform with input validation and abuse-resistant API design that shipped with zero P0 bugs and a **40%** lower defect rate than the team's prior sprint baseline.
- Designed the deployment and preview pipeline using Docker and GitHub Actions — every PR spun up an isolated preview environment with seeded test data, enabling the team to review full-stack changes visually before merge and catching 3 integration regressions that unit tests alone missed.
- Optimised the frontend bundle and server-side rendering pipeline, cutting initial page load from a Lighthouse score of 58 to 86 (35% faster first paint) and driving a 20% lift in sign-up conversion within two weeks post-launch.

Front end developer intern — Enitiate, Remote Jul - Oct 2023

- Built the Auth, Portfolio and Profile (PNP) modules with OAuth 2.0 and JWT for a platform serving 8,000+ active users, reducing unauthorised access incidents to zero post deployment.
- Re architected a shared UI component library consumed by 3 applications, drove a 25% lift in user engagement and a 15% reduction in drop off rate measured via Google Analytics event funnels over 60 days post launch.
- Standardised a responsive design system with shared tokens for spacing, typography and colour across all three frontend clients, eliminating per-app style drift and cutting new-feature UI implementation time by roughly 30% for the frontend team.

Skills

Frontend	React, Next.js, TypeScript, JavaScript, Tailwind CSS, HTML/CSS, Recharts, D3.js
Backend & APIs	Python, Node.js, Express.js, REST APIs, WebSockets, Server-Side Rendering, OAuth 2.0, JWT
Databases	PostgreSQL, MongoDB, MySQL, Redis, ChromaDB Prisma ORM
Cloud & DevOps	AWS, Docker, GitHub Actions, CI/CD Pipelines, Linux, Vercel

Projects

Agentic Crew Ops Advisor | Live Demo *React · TypeScript · Node.js · Groq API · Vercel*

- Built an agentic airline CrewOps Recovery Copilot that analyzes crew disruptions, validates operational constraints, and recommends ranked recovery plans across sick calls, delays, station closures, certification expiry, and simultaneous crew disruptions.
- Designed a deterministic legality and recovery engine for FDP, rest, duty-hour limits, qualifications, certifications, reserve/deadhead constraints, recovery cost, and joint allocation, with LLMs restricted to evidence-grounded explanations.
- Productionized and deployed the system with comprehensive automated testing, dataset-wide verification, live LLM evaluation, graceful provider fallback, rate limiting, health checks, request tracing, and a Vercel-hosted end-to-end frontend/API architecture.

Text Provenance Engine | Live Demo *FastAPI · React · Supabase · Docker · Vercel*

- Built a production-grade text provenance platform for detecting hidden Unicode signals and evaluating watermark robustness, with Supabase auth, persistent usage tracking, anonymous quotas, and Free/Pro access control.
- Implemented reproducible KGW/SynthID robustness experiments with 20+ deterministic text transformations, benchmark orchestration, Wilson confidence intervals, retry/cancel flows, and detector capability classification.
- Shipped the system as an end-to-end SaaS with FastAPI APIs, React dashboard, PostgreSQL persistence, Razorpay billing, Dockerized deployment, and privacy-preserving analysis that avoids storing raw public text.

DataWeave-AI | Live Demo *Python · LangChain · OpenRouter · Vector Search · PostgreSQL*

- Developed a RAG application that lets users upload PDFs and query them conversationally, with LangChain agents orchestrating retrieval over vector-indexed document chunks — chose a chunking strategy tuned to preserve table structure after finding that naive paragraph splits destroyed tabular reasoning accuracy.
- Implemented cited answers with source-paragraph traceability so users can verify every claim against the original document, plus authenticated chat persistence allowing users to resume multi-session research threads without re-uploading files.

Leadership & Achievement

- **AINCAT (NCAT-26), Naukri Campus** — AIR 333; **100th percentile, Quantitative Aptitude**; 98th, Engineering.
- **Hacktoberfest × Microsoft Learn Student Ambassadors** | Site — Delivered technical workshops on Git, open-source contribution and CI/CD workflows to 250+ students; 3 mentees merged PRs into public repositories within 2 weeks.
- **KIITFest** — Maintained the event platform serving **35,000+** attendees, owning performance optimisation and zero-downtime.
- **KIITMUN** — Built and maintained the conference platform serving **1300+** delegates, supporting real-time collaboration across international discussion sessions.
- **Bessemer Tech Catalyst** — Finalist — Selected for the Bengaluru finale among 300+ builders from 10,000+ registrations, built against real AI engineering problem statements from Bessemer portfolio companies.

Education

2022 – Apr 2026 B.Tech in Computer Science & Engineering, **KIIT, Bhubaneswar** (CGPA: 7.66)

2021 – Jun 2022 Higher Secondary (Class XII), **Resdential Public School** (71%)