

NIKHIL RAI

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PROFESSIONAL SUMMARY

CSE undergrad (9.02 CGPA) and competitive programmer (1900+ Rating on LeetCode) with expertise in full-stack development (TypeScript, Next.js, Node.js, PostgreSQL). Skilled in REST APIs, event-driven architecture, and cloud deployment (Docker). Seeking an SWE internship to build scalable backend systems and modern web products.

EDUCATION

Noida Institute of Engineering and Technology, Greater Noida

Bachelor of Technology, Computer Science and Engineering | CGPA: 9.02 | 2023-2027

TECHNICAL SKILLS

Programming Languages: C, C++, Java, TypeScript, JavaScript, Python

Frontend: React, Next.js, Tailwind CSS, Redux, Zustand

Backend: Node.js, Express.js, MongoDB, Prisma, PostgreSQL

DevOps & Cloud: Docker, AWS, Git, GitHub, Linux, Postman, Cloudflare Workers

Core CS: Data Structures & Algorithms, Operating Systems, DBMS, OOP, System Design, Microservices

PROJECTS

[Nodebase](#) – Event-Driven Workflow Automation Platform [\[Live URL\]](#)

github.com/Nikhil2005Rai/Nodebase

- **Tech:** Next.js, Typescript, Prisma ORM, PostgreSQL, Sentry, Docker
- Designed a modular event-driven task orchestration system capable of executing custom multi-step workflows, reducing manual workflow setup time by ~60%
- Implemented microservices-style backend modules with isolated execution contexts, improving system reliability and fault tolerance
- Optimized PostgreSQL queries using indexing and schema design best practices, reducing p95 query latency by ~40%
- Integrated Sentry for real-time error tracking and monitoring; reduced mean time to detection (MTTD) for production errors by ~50%

[WorkNet](#) – Real-Time Team Communication Platform [\[Live URL\]](#)

github.com/Nikhil2005Rai/WorkNet

- **Tech:** Next.js, TypeScript, Convex, PostgreSQL, REST APIs, RBAC
- Architected a role-based access control (RBAC) system managing permissions across 5+ channel types, reducing unauthorized access incidents to zero in testing
- Built real-time messaging and threaded discussions using event-driven architecture with Convex, achieving sub-100ms message delivery latency
- Designed and exposed 12+ RESTful backend API endpoints with optimized query patterns, cutting average database response time by ~35%
- Modeled normalized PostgreSQL relational schemas to support multi-workspace, multi-channel team communication at scale

ACHIEVEMENTS

- **LeetCode** [\[Profile\]](#): 2000+ rating with 1000+ algorithmic problems solved across different platforms — **top 5%** globally
- **CodeChef** [\[Profile\]](#): 3-star rated competitive programmer
- **IICPC CodeFest 2026** Global Prelims: Rank **2362** among 13,000+ participants (**Top ~18%**)
- **2nd Prize** – NIET WebWeave Hackathon

CERTIFICATIONS

- [TechA Certified Java Developer](#)
- [Java Fundamentals – Oracle Academy](#)
- [Introduction to Cybersecurity – Cisco](#)