


Gourav Kumar

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SUMMARY

Full-stack developer with expertise in React, Node.js, and Python/FastAPI. **Lead Developer of the institute's official website**, driving end-to-end development, deployment, and UI and performance enhancements. Passionate about AI/ML, game development, and continuously exploring new technologies.

EXPERIENCE

Indian Institute Of Information Technology Kota

Jan 2025 - Present

Full Stack Developer

- **Developed the institute's new official website**, ensuring consistent uptime and reliable performance.
- **Achieved >99.9% uptime with real-time monitoring** and zero-downtime deployment through CI/CD pipelines.
- **Boosted page load speeds by 95% and secured a perfect 100/100 Core Web Vitals score** through code splitting, image optimization, and lazy loading.
- **Integrated a global CDN**, enabling faster content delivery and optimizing device access.
- Designed a mobile-first, SEO-optimized architecture, contributing to a **300% surge in organic search traffic**.

EDUCATION

Indian Institute Of Information Technology Kota

August 2023 - Present

Bachelor of Technology in Computer Science Engineering (CGPA: 8.78 / 10)

PROJECTS

Chalice of the King | <https://chalice-of-the-king.vercel.app/>

A real-time, web-based multiplayer game blending strategy, deception, and survival, inspired by social deduction mechanics. Players compete in fast-paced rounds deciding whether to drink, pass, bluff, or strike—all under pressure.

- Built a low-latency multiplayer backend supporting **1000+ concurrent connections** across 4-player rooms, ensuring **sub-100ms communication** using WebSockets and WebRTC.
- Enhanced engagement with a smart single-player mode powered by **heuristic-based Game AI**, maintaining a **70% win rate** against average users.
- Optimized gameplay experience with **responsive design, asset preloading, and an interactive tutorial**, leading to a **15% boost in tutorial completion**.

Technologies: React, TypeScript, WebSockets, WebRTC, Node.js, Express.js, Shepherd.js, Custom Game AI

Into the repo | <https://into-the-repo.vercel.app/>

An AI-powered platform streamlining developer onboarding for GitHub repositories

- **Reduced developer onboarding time by an estimated 80%** through auto-generating interactive architecture maps, key code insights, and personalized tutorials.
- **Processed codebases exceeding 100K lines** by implementing Tree-sitter for accurate Abstract Syntax Tree (AST) parsing and robust dependency mapping.
- **Achieved over 90% accuracy in identifying critical files** by applying advanced Git history frequency analysis.
- **Generated visual insights (graphs, maps, tutorials) in under 5 seconds** via optimized FastAPI streaming backend.

Technologies: Next.js, TypeScript, React Flow, IndexedDB, FastAPI, Python, Tree-sitter, GitHub API, Gemini API, Server Side Events (SSE)

TECHNICAL SKILLS

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

Front-End Development: React, Next.js, Tailwind CSS, Redux Toolkit, HTML, CSS, Three.js, Framer-motion

Back-End Development: Node.js, Express.js, FastAPI, PostgreSQL, MongoDB, Redis

AI & Machine Learning: Scikit-learn, TensorFlow, NumPy, Pandas, Matplotlib

Tools & Platforms: Git & GitHub, Docker, Figma, Unreal Engine 5