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 and 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

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, Aceternity UI, IndexedDB, FastAPI, Python, Tree-sitter, GitHub API, Gemini API, Server Side Events (SSE)

Ember Chat App | https://ember-chat-app.netlify.app/
A real-time chat application for instant messaging and social connections.

- Developed a **full-stack, real-time chat application** with features including instant messaging, friend management, and customizable user profiles.
- Designed a responsive, user-friendly interface with integrated emoji support across devices.
- **Optimized performance to reduce message delivery latency by 40%** through strategic user data caching.

Technologies: React.js, Node, Express, Socket.io, MongoDB

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, Canva

CERTIFICATIONS

Complete A.I. & Machine Learning, Data Science Bootcamp, Udemy	Issued Apr 2025
Complete Web & Mobile Designer: UI/UX, Figma, +more, Udemy	Issued Aug 2024
Complete 2024 Web Development Bootcamp, Udemy	Issued May 2024