

Amay Kumar Tiwary

+91 8448341909 | amaytiwary7125@gmail.com | Portfolio
in LinkedIn | GitHub | Blog
Delhi, India

SKILLS

Programming Languages: C++, Java, Python, JavaScript, TypeScript, SQL
Web Development: MongoDB, Express.js, React, Node.js (MERN), Next.js, Tailwind CSS
AI & Machine Learning: LLM Orchestration, RAG Systems, Vector Databases, NLP
Core Concepts & Tools: Data Structures & Algorithms, Git, GitHub, Vercel, Firebase

EXPERIENCE

Google Developer Group (GDG) Nov 2024 – Present
Software Developer

- Spearheading the architecture of high-performance web applications, improving initial page render speeds by 30% utilizing modern JavaScript frameworks.
- Designing scalable backend systems and RESTful APIs capable of handling 1,000+ daily data requests, ensuring seamless integration and maintainability.
- Driving rigorous code review processes across cross-functional teams, reducing production bugs by 25% and accelerating overall deployment cycles.

PROJECTS

Nextric Hire: AI-Powered SaaS Platform Dec 2024
Technologies: React, Node.js, TypeScript, WebSockets, Firebase, LLMs
Live Demo | GitHub

- Engineered a scalable SaaS application using React and Node.js for ATS-friendly resume generation, reducing manual formatting time by over 80%.
- Integrated LLM orchestration to dynamically analyze job descriptions, tailoring user profiles and increasing ATS application match rates by approximately 45%.
- Architected a real-time event-driven communication layer via WebSockets, processing 50+ concurrent PDF renders with sub-200ms latency.

AskMyPDF: Distributed AI Analysis Tool Oct 2024
Technologies: Node.js, Express.js, MongoDB, RAG, Vector DB
Live Demo | GitHub

- Developed a Retrieval-Augmented Generation (RAG) backend using Node.js and Vector Databases, extracting insights from 100+ page PDFs in under 3 seconds.
- Designed a resilient RESTful API with Express.js for complex NLP queries, reducing document review time by 75% and reliably handling 500+ daily requests.
- Implemented modular data pipelines and testing frameworks, ensuring 99.9% system uptime and decreasing database query latency by 40%.

Astra-Ai: High-Performance Web Agency Solution Aug 2024
Technologies: Next.js, TypeScript, Tailwind CSS, Auth Systems
Live demo | GitHub

- Architected a scalable Next.js and TypeScript application, resolving client latency issues by achieving a 98/100 Lighthouse score and cutting load times by 60%.
- Streamlined the user interface with Tailwind CSS, delivering a fully responsive layout that boosted user retention by 35% and mobile conversions by 25%.
- Integrated robust, distributed authentication protocols to securely manage 500+ active user sessions while safeguarding sensitive data interactions.

ACHIEVEMENTS

- **Competitive Programming:** Achieved Knight badge on LeetCode (2100+ Rating), ranking in the Top 1% globally by consistently optimizing complex algorithmic logic.
- **Hackathons & Competitions:** 5-time National Hackathon Winner; achieved Top 100 in India out of 276,000+ participants in the Infosys HackWithInfy coding competition.

EDUCATION

Guru Teg Bahadur Institute of Technology Sep 2023 – Jun 2027
B.Tech in Information Technology, Delhi, India
CGPA: 8.028/10
Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Database Management Systems, Operating Systems.