

# Abhijeet Kumar

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Portfolio

## Professional Summary

A highly motivated **MERN Stack Developer** with strong proficiency in **Data Structures and Algorithms (DSA)** and hands-on experience in building scalable and high-performance web applications. Skilled in both **frontend** as well as **backend** development, with a solid command over modern technologies and best practices. Hands-on experience in **system design** and scalable architecture. Passionate about writing clean, maintainable, and optimized code, solving complex problems efficiently, and delivering robust, user-focused solutions that create real impact.

## Technical Skills

- **Languages:** JavaScript, TypeScript, C++, C, Java, Python, HTML5, CSS3
- **Frontend:** React.js, Next.js, Tailwind CSS, ShadCN/UI, Zustand
- **Backend:** Node.js, Express.js, MongoDB, Redis, SQL
- **Auth & Security:** JWT, bcrypt.js, Express Rate Limiting, Firebase Auth
- **DevOps & Cloud:** Docker, AWS (EC2, S3), CI/CD Pipelines, Linux
- **Tools:** Git, GitHub, WebSockets, Cloudinary, dotenv, Postman

## Education

### Master of Computer Application (CGPA: 8.8/10)

2024 – 2026

Graphic Era University, Dehradun

### Bachelor of Computer Application (CGPA: 8.0/10)

2021 – 2024

Babasaheb Bhimrao Ambedkar Bihar University (BRABU)

## Projects

### NoteHub – Collaborative Editor (2025)

Stack: MERN

- Designed for students to write, share, and explore academic notes collaboratively — similar to **GitHub but for study notes**.
- Built a LaTeX/Markdown-powered editor with **smart auto-formatting**, syntax detection, and a **VS Code-inspired UI** for an intuitive writing experience.
- **Live Link:** <https://notehub-38kp.onrender.com>

### GEU ERP – Mod Version (2025)

Stack: Next.js, TypeScript

- Re-engineered the **GEU ERP** into a high-performance student portal with **smart caching**, **priority loading**, and secure session workflows.
- Delivered a mobile-first Single Page Application (SPA) with **3x faster navigation**, improved API communication, and optimized session/token management for a seamless user experience.
- **Live Link:** [geu-quick-access.vercel.app](https://geu-quick-access.vercel.app)

### Chess Engine (2024)

Stack: C++, Algorithms/DSA

- Developed a **chess engine** with an estimated playing strength of **2350 Elo**, implementing bitboards, alpha–beta pruning, and advanced search heuristics.
- Capable of analysing **190+ millions** of possible moves within 3-4 seconds, allowing it to plan multiple turns ahead - making it extremely challenging for casual players to defeat.
- **Live Link:** <https://chessleague.netlify.app>

## Achievements

- Solved **750+ DSA problems** on GFG and LeetCode, and built **15+ projects** in Web Development and DSA.
- Ranked among the **top 4.2%** of LeetCode (2023).

## Hobbies and Interests

- Playing chess to improve strategic thinking, patience, and decision-making skills.
- Exploring UI/UX design to create clean, user-friendly, and visually appealing digital experiences.