

Sujal Kumar

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EDUCATION

- **Dr. B. R. Ambedkar National Institute of Technology** Jalandhar, India
Bachelor of Technology - Information Technology 2022 - 2026
Coursework: Operating Systems, Data Structures, Algorithms, Machine Learning, Computer Networks, Database Management

TECHNICAL SKILLS

- **Programming Languages:** C++, JavaScript, Python, C, TypeScript, SQL
- **Frameworks & Libraries:** React.js, Next.js, Node.js, Express.js, FastAPI, Tailwind CSS, Redux, Flask, Tensorflow
- **Tools & Platforms:** Git, GitHub, GitLab, Figma, Anaconda, Postman, Jest, Notion, Prisma
- **Databases:** MySQL, SQLite, MongoDB, DynamoDB, PostgreSQL, Redis
- **DevOps & Cloud:** Docker, Kubernetes, Ansible, CI/CD pipelines, AWS (EC2, S3, Lambda), Terraform, Jenkins
- **Professional Skills:** Agile Methodology, Technical Leadership, Project Management, Cross-functional Collaboration

WORK EXPERIENCE

- **Gurukul Foundation** Remote
Frontend Developer June 2024 - July 2024
 - **Company's Website:** Engineered a responsive web application using Next.js with strong daily user engagement and high mobile responsiveness, while implementing WCAG 2.1 standards.
 - **Performance Optimization:** Initiated code splitting and lazy loading techniques to reduce initial load time, improving user retention metrics and search engine rankings.
- **GrapplTech** Remote
Software Development Engineer Intern May 2024 - June 2024
 - **Front-End Development:** Proposed and implemented a responsive Hero section using React.js and TailwindCSS, enhancing site engagement and reducing bounce rate.
 - **Frontend Optimization:** Leveraged performance analysis tools to identify and fix rendering bottlenecks, leading to faster page load times and improved Core Web Vitals metrics.

TECHNICAL PROJECTS

- **Routeify** [🔗](#) *React.js, Node.js, Express.js, Socket.io, MongoDB, TailwindCSS, Razorpay*
 - Developed a scalable ride-hailing platform with real-time location tracking, utilizing WebSockets for live updates and geolocation APIs for route optimization.
 - Combined MongoDB schema design with geospatial indexing to optimize driver-rider matching algorithms, supporting 800+ concurrent users with sub-second response times.
 - Built responsive mobile-first interface with Redux state management, facilitating seamless ride booking, driver assignment, and secure payment processing workflows.
- **ZingGuru** [🔗](#) *MERN, TailwindCSS, FastAPI, Agentic AI, MongoDB, RAG-based LLM*
 - Developed a one-stop, AI-powered learning platform during HackTU 6.0, featuring adaptive study paths, gamified engagement, along with career-focused learning and resources.
 - Integrated a Retrieval-Augmented Generation (RAG) based LLM for personalized career path generation, multilingual video summarizing and test generation, along with a personalized AI assistant.
 - Engineered a centralized learner studio to unify course links from multiple platforms (Coursera, Udemy, etc.), enabling seamless progress tracking and content access in a single interface.

ACHIEVEMENTS & LEADERSHIP

- **HackTU 6.0 Hackathon:** Secured 2nd Runner-up position at HackTU 6.0, competing against 200+ teams from all over India at Thapar Institute of Engineering & Technology, Patiala. [🔗](#)
- **Competitive Programming:** Solved 900+ DSA and SQL problems across platforms including CodeStudio, GeeksForGeeks, Codeforces, AtCoder, CodeChef and LeetCode with 1800+ rating on LeetCode and Specialist (1400+) on CodeForces. [🔗](#)
- **GDGC - Google Developer Groups:** Served as a core member of the Web Team. Played a key role in organizing HackMol 6.0 at NIT Jalandhar, coordinating tech infrastructure and ensuring seamless participant experience.
- **Research:** Conducted research on applying Hadoop for scalable data processing and improved recommendations in hotel booking platforms.