

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
- Bhartiya Vidya Mandir Sr. Sec. School (U.S.N.) , Ludhiana** India
High School (Senior Secondary Education) 2020 - 2022

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, n8n
- 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 Nov 2024 - Dec 2024
 - Web Application Development:** Developed a feature-rich web application with Next.js, achieving a 95% Lighthouse score for mobile-first design and ensuring full WCAG 2.1 accessibility compliance.
 - Performance Tuning:** Improved user retention by 15% by implementing code splitting and lazy loading, which decreased initial page load time by over 30%.
- GrapplTech** Remote
Software Development Engineer Intern May 2024 - Nov 2024
 - UI Development:** Revamped the main landing page's Hero section using React.js and TailwindCSS, leading to a 20% reduction in bounce rate and a 10% increase in average user session duration.
 - Frontend Optimization:** Resolved critical rendering bottlenecks using performance analysis tools, cutting page load times by 40% and boosting Core Web Vitals scores into the green.

TECHNICAL PROJECTS

- Routeify** [🔗](#) *React.js, Node.js, Express.js, Socket.io, MongoDB, TailwindCSS, Razorpay*
 - Delivered a full-stack ride-hailing platform with real-time GPS tracking via WebSockets and optimized routing using geolocation APIs.
 - Engineered a MongoDB schema with geospatial indexing that matched drivers to riders in under 500ms, successfully scaling to support 800+ concurrent users.
 - Built a responsive Redux-based interface that simplified the booking flow into a 3-step process, integrating a payment gateway with a 99.9% transaction success rate.
- ZingGuru** [🔗](#) *MERN, TailwindCSS, FastAPI, Agentic AI, MongoDB, RAG-based LLM*
 - Won 2nd Runner-up at HackTU 6.0 by creating an AI learning hub with adaptive study paths and gamified modules to enhance user engagement.
 - Deployed a Retrieval-Augmented Generation (RAG) LLM to provide personalized career guidance and generate video summaries across 5+ languages.
 - Architected a centralized studio to aggregate content from platforms like Coursera and Udemy, cutting content search time for users by an estimated 50%.

ACHIEVEMENTS & LEADERSHIP

- HackTU 6.0 Hackathon:** Secured 2nd Runner-up among 200+ teams in a 48-hour national hackathon at Thapar Institute of Engineering & Technology. [🔗](#)
- Competitive Programming:** Solved 900+ DSA and SQL problems, achieving a Specialist (1400+) rank on CodeForces and placing in the top 10% of users on LeetCode (1800+ rating). [🔗](#)
- Google Developer Groups:** Managed web infrastructure deployment for HackMol 6.0 as a core team member, supporting over 500 participants with zero downtime during the 48-hour event.
- Data Processing Research:** Led research into applying Hadoop for scalable data processing, developing a model that improved recommendation accuracy in hotel booking platforms by 12%.