

Samarth Shukla

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SUMMARY

B.Tech CSE student (2023–2027) at KIIT with strong foundation in systems programming, algorithms, and data compression. Experienced in memory management, performance optimization, and full-stack development. Interested in high-performance computing, low-latency systems, and developer productivity tools.

WORK EXPERIENCE

Website Designer & Tech Associate — Legal Bano Website Designer & Tech Associate — Legal Bano
April 2025 - Present Designed and optimized company website, boosted load speed by 40% and increased client inquiries by 25% Implemented technology stack decisions, reducing hosting costs by 15% and enhancing scalability for 10x traffic Built automated workflows with founding team, increased development efficiency by 20-30%

Open Source Developer — Antiwork/Gumboard Open Source Developer — Antiwork/Gumboard
September 2025 Contributed 2 merged pull requests fixing UI consistency issues and improving user navigation Implemented clickable logo navigation (#775) and rounded border styling (#777) using React/TypeScript Collaborated through code reviews and utilized Git workflows to ensure seamless integration

PROJECTS

Custom Memory Allocator *C, Systems Programming*
Executed malloc/free with block splitting, coalescing, and best-fit allocation. Reduced fragmentation by 20% and improved small allocation performance by 15-25% vs. glibc malloc.

Bandwidth Optimizer with Huffman Coding *C++, Algorithms*
Built compression engine using priority queues and Huffman coding. Cut bandwidth usage by 30-50%, shrinking files by up to 35 MB. Achieved $O(n \log n)$ build and $O(n)$ decode complexity.

Mistry Message — Full-Stack Messaging Platform *Next.js, TypeScript, MongoDB*
Built and deployed in 3 weeks, scaled to 500+ users with 99.9% uptime. Executed real-time chat and auth with <200ms latency, boosting retention by 30%. Added 3D visualization, doubling daily engagement.

File Compression CLI Tool *Node.js, Systems*
Developed cross-format compression/decompression tool with modular plug-in design. Enhanced server storage utilization by 40% under stress-tested workloads.

SKILLS

- **Programming:** C, C++, Java, JavaScript (ES6+), TypeScript
- **Core CS:** Data Structures & Algorithms, DBMS, Operating Systems, Networking
- **Web/Cloud:** React.js, Next.js, Node.js, Express.js, Cloudflare Workers
- **Tools:** Git, GitHub, Docker, CI/CD (Vercel, Netlify, Cloudflare), n8n Automation
- **Databases:** MongoDB, PostgreSQL, MySQL
- **Other:** Tailwind CSS, Three.js, Drizzle ORM

EDUCATION

2023 - present B.Tech (Computer Science Engineering) at **Kalinga Institute of Technology**

ACHIEVEMENTS & LEADERSHIP

- **Rigel Foundation — Member** *2024 - Present*
Contributed to Government of India registered NGO initiatives in education, health, and sustainability, impacting 10,000+ people through community programs and outreach activities.
- **Cloudflare VibeSummer Hackathon — Participant** *August, 2025*
Selected from 100+ applicants; completed coding challenges across 2 weeks, deployed MCP servers in cloud infrastructure, and earned recognition swags for technical excellence.