Somil Gupta

≤ gsomil93@gmail.com J +91 8384802870 in LinkedIn 🖓 Github

Bulandshahr, Uttar Pradesh - 203001, India

EDUCATION

Indian Institute of Information Technology

Bachelor of Technology in Computer Science and Engineering • CGPA: 8.00/10.00

EXPERIENCE

Indian Institute of Information Technology

- Smart India Hackathon Finalist 24
- Led the development of an AI-driven traffic automation system using Q-learning, optimizing signal timings and reducing congestion by 30%.
- Designed and implemented a real-time AI-driven vehicle detection model using YOLOv8, integrated with OpenCV and TensorFlow, achieving 95% accuracy.
- Engineered cryptographic security measures, leveraging hashing algorithms to safeguard 10,000+ data transactions.

Adhyaay, IIIT Bhagalpur

Technical Mentor

August 2024 – Present

Bhagalpur, India

August 2023 - July 2027

Bhagalpur, India

December 24 Bhagalpur, India

- Mentored 20+ students in DSA & Web Development, boosting placement readiness by 30% Managed a team of 6 members to design the Adhyaay website, reducing workload by 50% and improving response times by 2x
- IIT Bombay Community Outreach Executive

Bombay, India

 Promoted IIT Bombay's technical and cultural events to over 200 students, increasing participation by 25% compared to the previous year.

PROJECTS

- CAKE A Collaborative AI-Assisted Coding Environment () () Tech Stack: React, Vite, Tailwind CSS, WebContainers, Socket.io, Node.js, Express, MongoDB, Redis, JWT, Google Generative AI March 2025
 - Spearheaded the development of an AI-powered collaborative coding platform, supporting 100+ concurrent users, enabling real-time interaction, live chat, and AI-assisted code completion, boosting developer productivity and collaboration.
 - Fortified WebSocket infrastructure using Socket.io, diminishing communication latency by 60% and enabling near-instantaneous updates, which enhanced the responsiveness of the platform for all users.
 - Reduced code deployment time by 80% through the optimized integration of WebContainers, enabling the execution of over 1,000 code snippets daily, accelerating development cycles for the team.
 - Developed a secure JWT-based authentication system with bcrypt, cutting unauthorized access attempts by 95% and improving login efficiency by 40%.
 - Deployed the frontend on Vercel and backend on Render, achieving 99.9% uptime and scaling to handle 10,000+ API requests daily.
 - Integrated Google Generative AI, improving code generation efficiency by 50%, reducing debugging time, and enhancing code quality.

- AGILE A Workflow Management Platform () () Contract C
 - Developed and scaled a Kanban-based work management platform, streamlining project management with secure authentication via Clerk.
 - Integrated markdown editing using uiw/react-md-editor, enhancing documentation and collaboration capabilities.
 - Implemented a dark/light mode toggle using next-themes, increasing user engagement by 35%.
 - Designed and investigated a scalable backend with Prisma & PostgreSQL, reducing data retrieval time by 50%.
 - Integrated real-time notifications using Sonner, improving task tracking and feedback loops.
 - Streamlined API performance and state management, achieving 40% faster task operations.

SKILLS

- Front-End: React.js, Next.js, TypeScript, JavaScript, Tailwind CSS, Responsive Design, UI/UX.
- Back-End: Node.js, Express.js, RESTful APIs, WebSockets (Socket.io), JWT Authentication.
- Databases: PostgreSQL, MongoDB, Redis, Prisma ORM.
- Tools & Testing: Vercel, Git, GitHub, RabbitMQ, Docker, CI/CD pipeline.
- **Programming Languages**: JavaScript, TypeScript, SQL, C++, Go.
- Soft Skills: Debugging, Technical Documentation, Cross-Team Collaboration, Task Prioritization.

ACHIEVEMENTS

- CodeChef 3-Star (Max Rating: 1676), Top 10% globally coding_bear
- LeetCode Max Rating: 1659, Solved 300+ Data Structures & Algorithms problems strangecode93
- Competitive Programming Winner, Best Team of Batch '27, securing 1st place among 30+ teams in a college-wide coding competition.

April 2025

July 2024 - December 2024