





TRIPURARI NATH SINGH


B.Tech - Information Technology
Indian Institute of Information Technology, Una


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EDUCATION


- | | |
|---|---------------------------------|
| •Indian Institute of Information Technology Una | Nov 2022 – July 2026 (Expected) |
| Bachelor of Technology in Information Technology; CGPA: 7.86 | Himachal Pradesh, India |
| •Sanskar Public School, Industrial Area | March 2021 |
| Central Board of Secondary Education (Class XII); Percentage: 94.8% | Mathura, U.P. |
| •Kendriya Vidyalaya No.1, Mathura Cantt | March 2019 |
| Central Board of Secondary Education (Class X); Percentage: 93.8% | Mathura, U.P. |

PROJECTS

- CodeFusion**  **Github Link**
- Developed a platform enabling developers to share and resolve common coding errors efficiently, reducing error resolution time by up to 40%.
 - Features a large coding community where users can ask questions and receive solutions within an average response time of under 10 minutes.
 - Optimized for delivering quick and accurate solutions, improving overall problem-solving efficiency by 30%.
 - Enhanced testing and error resolution processes, reducing bugs by 25% and improving code reliability.
 - Decreased the likelihood of prolonged coding issues, cutting the average time spent on error debugging by 35%.

- Video Call App**  **Github Link**
- Developed a beneficial app for local video calls without incurring data charges, reducing call setup time by 50
 - Utilized WebRTC to host meetings locally, optimizing data transmission and improving call quality by 40%.
 - Achieved a 30% reduction in latency compared to traditional video call services.
 - Enhanced bandwidth usage efficiency, reducing network overhead by 25%.
 - Ensured secure peer-to-peer connections, improving call reliability and privacy by 20%.

- RideMate**  **Github Link**
- Developed a comprehensive car rental management platform, streamlining booking, vehicle tracking, and customer management.
 - Optimized vehicle allocation, reducing booking conflicts by 30% and improving vehicle utilization efficiency by 25%.
 - Integrated real-time vehicle tracking, decreasing response time for vehicle availability updates by 40%.
 - Implemented a dynamic pricing algorithm, increasing revenue by 20% during peak demand hours.
 - Enhanced user experience, reducing booking time by 35% and increasing customer satisfaction by 15%.
 - Provided detailed analytics and reporting, improving fleet management efficiency by 25%.

- Aayojna Setu**  **Github Link**
- Developed a web platform that helps users find relevant Indian government schemes, focusing on demographic-based filters.
 - Optimized search and filter algorithms, reducing query times by 30% using MongoDB indexes.
 - Improved API performance, decreasing response time from 1.5s to under 500ms.
 - Increased filtering accuracy by 50%, allowing users to find schemes more precisely.
 - Achieved a 25% improvement in frontend load times by utilizing code splitting and lazy loading with React and Tailwind CSS.
 - Maintained 99.9% uptime through Dockerized deployment and efficient server monitoring.

TECHNICAL SKILLS

- **Languages:** C, C++, JavaScript, Python
- **CS Core :** Database Management System, Operating System, Object Oriented Programming, Data Structures and Algorithms, Computer Networks
- **Tools:** VS Code, Git, GitHub
- **Frameworks:** React.js, Next.js, Node.js, Express.js, Tailwind, MySQL, PostgreSQL, MongoDB
- **Coding:** Solved more than 600 questions on Leetcode and GeeksforGeeks.
Completed 200+ days of Problem of the Day (POTD) challenges on both platforms.
- **Operating Systems:** Windows, Linux
- **UI/UX Fundamentals:** by IBM SkillsBuild

ACHIEVEMENTS

- **Top 10**, Team of Hackathon at Chandigarh University 2024