Shruti

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Education

National Institute of Technology, Hamirpur *Aug 2023 – Present*
Bachelor of Technology in Electrical Engineering **CGPA: 8.72**

Projects

Yapsy -Real-Time Chat Application *Mar 2025*
MERN, Socket.io, TailwindCSS, Daisy UI GitHub ↗

- Developed a real-time chat app using Socket.io for instant messaging with low-latency communication.
- Implemented JWT authentication and authorization for secure user login and session management.
- Used Zustand for global state management and Cloudinary for optimized media uploads and storage.
- Integrated comprehensive error handling on both client and server for a smooth user experience.

SHELTERRA- Hackathon Project *Mar 2025*
MERN, FlaskApi, Machine Learning, Next.js, TailwindCSS GitHub ↗

- Problem: Government zoning in hilly areas is updated every 5-10 years, reducing efficiency due to changing vegetation and soil conditions. This delay makes infrastructure and lives vulnerable to landslides.
- Solution: Developed a prototype that uses real-time sensor data and Machine Learning models to dynamically assess high and low-risk zones, providing instant insights for better decision-making.
- My Contribution: Frontend, Backend, Deployment

Meme Generator *Nov 2024*
HTML,CSS,JS GitHub ↗

- A dynamic meme generator allowing users to upload images, add text, and download personalized memes
- Implemented **real-time canvas** rendering with JavaScript for smooth text overlays
- Enabled high-quality PNG downloads via client-side implementation

Guide-Web-Dev *Nov 2024*
HTML,CSS GitHub ↗

- Created a responsive web development roadmap guide for beginners
- Implemented **interactive and dynamic content**, including embedded videos and navigation menus for an engaging user experience
- Utilized **media queries and iframes** to ensure a mobile-friendly and responsive design

Skills

Programming Languages: C++, Python, C.
Web Technologies: ReactJS, ExpressJS, NodeJS, HTML, CSS, JavaScript
Database Management: MongoDb Atlas

Key Courses taken

Computer Science: Introduction to C, Python & Data Structures, Neural Networks & Fuzzy Logic
Mathematics: Linear Algebra and Calculus, Differential Equations, Linear System Analysis and Transforms

Achievements

- Achieved 5 ★ rating in problem solving on Hackerrank

Co-Curricular

NSS, NIT Hamirpur *Aug 2024 - Present*

- Represented the organisation by participating in the **15th Aug & 26th Jan** parade
- Initiated and led a **cleanliness drive** to promote hygiene across the college campus
- Organized a **cloth donation** drive to support an NGO and aid the underprivileged

Dramatics club, NIT Hamirpur *Oct 2023 - Aug 2024*

- **Hill'ffair 2k23:** Delivered a skit at our cultural fest, in front of an audience of over 5000 students
- Performed an impactful **Nukkad Natak** on 26th January 2024, addressing a gathering of the Director, Dean, faculty, and students