

Shivanshu Mishra

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SUMMARY

Dedicated Computer Science student with strong skills in web development and problem-solving. Experienced in building full-stack applications using React, Node.js, and SQL databases. Passionate about creating efficient, user-friendly software solutions.

EDUCATION

Bachelor of Technology in Computer Science

Lovely Professional University

Intermediate

Ratna Memorial Public School

Aug. 2021 – Present

Phagwara, Punjab

Aug. 2020 – May 2021

Gorakhpur, Uttar Pradesh

SKILLS

Languages: C/C++, SQL (PostgreSQL), JavaScript, HTML/CSS

Technologies/Frameworks: React.js, Node.js, MongoDB, Git, GitHub, Linux

Areas of Expertise: Frontend Web Development, Backend Development, Database Management, Data Structures and Algorithms

PROJECTS

Peer-to-Peer Video Calling Application | *React.js, WebRTC, PeerJS, Socket.IO, Node.js* Apr. 2024 – Present

- Developed a real-time peer-to-peer video calling application using WebRTC and PeerJS for seamless communication between users
- Established signaling and room creation using Socket.IO, enabling users to join rooms and initiate WebRTC connections
- Implemented backend with Node.js and Express to manage signaling and room management, ensuring efficient communication flow
- Built a responsive, modern frontend with React.js and Vite, utilizing Shadcn UI for an intuitive user experience
- Integrated dynamic media stream management and peer-to-peer connection handling with WebRTC, improving call quality and stability
- Ensured cross-platform compatibility and security with optimized media sharing and connection encryption

Real-time Chat Application | *Vite, React, Node.js, PostgreSQL, Socket.IO* Apr. 2024 – Present

- Engineered a full-stack real-time chat application using Vite for build optimization and React for frontend development
- Implemented secure user authentication and authorization using JSON Web Tokens (JWT)
- Designed and developed RESTful API endpoints using Node.js and Express.js for backend functionality
- Utilized PostgreSQL for efficient data storage and retrieval, ensuring data persistence and integrity
- Integrated Socket.IO to enable real-time bidirectional event-based communication for instant messaging
- Created responsive and intuitive user interface using Shadcn UI library and CSS for cross-platform compatibility

URL Shortener API (Discord Integration) | *Node.js, Express.js, MongoDB, Discord.js* Jan. 2024 – Feb. 2024

- Engineered a RESTful API for URL shortening using Node.js and Express.js, enabling the processing of over 5,000 requests daily and enhancing application performance with a 60% faster response time.
- Implemented custom algorithm to generate unique short IDs, showcasing problem-solving skills and efficiency in code design
- Utilized MongoDB for scalable and flexible NoSQL database management, ensuring efficient data storage and retrieval
- Integrated the API with a Discord bot using Discord.js, expanding the application's reach and usability
- Implemented error handling and input validation to ensure robustness and security of the API
- Designed and documented API endpoints for easy integration and usage by other developers

ACHIEVEMENTS

- Achieved 5-star rating in HackerRank C++
- Earned 3-star rating in HackerRank SQL and Problem Solving
- Solved over 600 problems on various competitive programming platforms
- Ranked under 3000 globally in five Codeforces contests