

SHUBHAM GYAWALI

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SUMMARY

Full-Stack Web Developer with a strong backend focus, specializing in the MERN stack. Experienced in building secure, scalable APIs and real-world web applications, with leadership exposure through technical community programs and hackathon organization.

SKILLS

Languages: JavaScript (ES6+), SQL, HTML, CSS
Backend: Node.js, Express.js, RESTful APIs, JWT Authentication
Frontend & Frameworks: React.js, Next.js, Redux, Tailwind CSS
Databases: MongoDB, Supabase
Tools: Git, GitHub, Postman

EDUCATION

Butwal Multiple Campus <i>Bachelor of Science in Computer Science and IT(Bsc. CSIT)</i>	Butwal, Nepal 2023 – Present
<ul style="list-style-type: none">Relevant Coursework: DSA, Database Management Systems, NET Centric , Computer Graphics , Web Technology	
Kalika Manavgyan Secondary School <i>+2 Technical – Computer Engineering</i>	Butwal, Nepal Completed 2079 B.S. (2022 AD)
<ul style="list-style-type: none">Relevant Coursework: C, Object-Oriented Programming (C++), Database Management Systems (DBMS), Microprocessors (8085), Web Technology, and Computer Networking.	

PROJECTS

Job Seeking Portal | *MERN Stack, JWT, REST APIs*

- Built a secure backend using **Node.js** and **Express.js**, implementing **JWT authentication** and Bcrypt-based password hashing for secure user sessions.
- Designed optimized **MongoDB schemas** to handle complex relations between job listings, recruiter profiles, and applicant workflows.
- Developed RESTful APIs with filtering and search capabilities, integrated with a **React.js** frontend for seamless state management.
- Tested and documented API endpoints using **Postman**, ensuring 100% reliability in data flow and error handling.

Real-Time Video Conferencing App | *Next.js, Node.js, Socket.io, WebRTC*

- Architected a real-time video calling platform using **Next.js** and a **Node.js** signaling server to facilitate Peer-to-Peer (P2P) connections.
- Implemented **WebRTC** (via Simple-Peer) for high-performance audio/video streaming with minimal server-side overhead.
- Utilized **Socket.io** for real-time signaling, managing room entry/exit and the exchange of ICE candidates between clients.
- Integrated **STUN servers** to ensure successful NAT traversal, allowing users to connect across different networks and firewalls.
- Developed features for camera/mic toggling and screen sharing using the **MediaDevices API** and custom React hooks for resource cleanup.

LEADERSHIP & ACTIVITIES

Code For Change <i>Class Representative (24.25 Tenure)</i>	Rupandehi, Nepal 2024 – 2025
<ul style="list-style-type: none">Represented students in the Code For Change program, coordinating communication between organizers and participants.Gained valuable learning and growth opportunities through this.Supported technical learning initiatives and student engagement activities within the district.	

CodeFest 2025 (Provincial Phase)

Rupandehi, Nepal

Organizing Member

2025

- Provided creative media support for the Rupandehi provincial event through targeted video editing for digital promotion.
- Supported local organizational tasks to ensure the successful execution of the provincial-level competition.

REFERENCES

Arbind Dubey

IT Instructor, Kalika Manavgyan Secondary School

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