

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

Butwal, Nepal

Bachelor of Science in Computer Science and IT(Bsc. CSIT)

2023 – Present

- Relevant Coursework: DSA, Database Management Systems, NET Centric , Computer Graphics , Web Technology

Kalika Manavgyan Secondary School

Butwal, Nepal

+2 Technical – Computer Engineering

Completed 2079 B.S. (2022 AD)

- **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

Rupandehi, Nepal

Class Representative (24.25 Tenure)

2024 – 2025

- 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.

- 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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