

JESHAN RAI

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EDUCATION

Orchid International College

2022 - 2026

Bachelor of Science in Computer Science and Information Technology

Kathmandu, Nepal

Trinity International Collage

2019 - 2022

+2 in Science

Kathmandu, Nepal

SKILLS

- **Programming Languages:** JavaScript,
- **Frontend Development:** HTML, CSS, Tailwind CSS, React.js, Next.js
- **Backend Development:** Node.js, Express.js, REST APIs
- **Database:** MySQL, MongoDB
- **Tools:** Git, GitHub, Postman, Vercel, Trello, Thunder Client

PROJECTS

Secure Chat System (Full-Stack MERN)

- Developed a secure messaging system with layered cryptography: RSA for key exchange, AES for symmetric encryption, and Arnold's Cat Map for image scrambling.
- Implemented real-time messaging using WebSockets to enable instant communication between users.
- Technology Used: WebSocket, MongoDB, Express.js, React.js, Node.js (MERN Stack).

Rudraksha Store (Full-Stack MERN)

- Built a full-stack e-commerce platform for Rudraksha products with dynamic product management, cart functionality, admin access, payment and checkout features.
- Implemented backend APIs, database integration, and responsive frontend.
- Technology Used: Stripe, MongoDB, Express.js, React.js, Node.js (MERN Stack).

TypeProgram (Full-Stack MERN)

- Developed a web-based typing and programming challenge platform where users can practise and compete.
- Implemented interactive typing challenges, real-time user competition, and score tracking using WebSockets.
- Technology Used: MongoDB, Express.js, React.js, Node.js (MERN Stack), WebSocket.

Birth Certificate Website(Full-Stack)

- Developed a web application for managing birth certificate registration and verification with secure login.
- Implemented form submission, admin verification, and PDF generation for official documents.
- Technology Used: PHP, MySQL, Apache, Dompdf, JavaScript.

Personal Profile Website (Frontend)

- Developed a personal portfolio website to showcase skills, projects, and experience.
- Integrated responsive UI, modern design, and responsive contact form.
- Technology Used: React.js, Framer, Three.js