

Khairaj Ram

Bikaner, Rajasthan | +91-8824488725 | [Email](#) | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

EDUCATION

National Institute of Technology Nagaland

B.Tech in Computer Science and Engineering CGPA: 8.98

Dimapur, India

Aug. 2023 – May 2027

Navjeevan Shikshan Sansthan School

Class XII – Physics, Chemistry, Mathematics Percentage: 88%

Sikar, Rajasthan

2022

R.K. Public Sr. Sec. School

Class X Percentage: 90%

Bikaner, Rajasthan

2020

EXPERIENCE

Undergraduate Research Contributor – ZKP Student Verification System

Aug 2025 – Present

National Institute of Technology Nagaland

Dimapur, India

- Built a privacy-preserving student credential verification system using Zero-Knowledge Proofs (ZKPs), enabling verification of enrollment status without exposing sensitive personal data.
- Implemented ZK circuits using **Circom** for provable claims (e.g., enrollment status, graduation year) and deployed **Solidity** smart contracts on Ethereum as on-chain verifiers.
- Developed a full-stack web interface using **Next.js** to generate and submit ZK proofs seamlessly through the browser.
- Collaborated with faculty on ZKP protocol design and focused on frontend integration, smart contract interaction, and system usability.

PROJECTS

MediCare – Medical Shop & Pet Health Management App | *Next.js, Node.js, Prisma, PostgreSQL*

- Engineered a full-stack medical shop web application with a focus on managing prescriptions and health-related data through a streamlined interface.
- Integrated a pet health tracking module to manage vaccination history, medical records, and health notes for a complete healthcare solution.
- Built secure REST APIs for user authentication and health record CRUD operations.

Real-Time Chat Application | *Node.js, Socket.io, React.js, MongoDB*

- Developed a real-time chat application using WebSockets supporting room-based messaging, live typing indicators, and persistent chat history with MongoDB
- Designed a fully responsive UI and implemented session management to enable seamless communication across devices

Brainly – Digital Resource Organizer | *React.js, Node.js, Express.js, MongoDB*

- Built a productivity web application enabling users to organize and categorize digital resources (tweets, videos, articles) using a tag-based system for efficient retrieval
- Designed a clean and intuitive dashboard for managing and quickly accessing saved study and reference materials

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, C/C++, Java (Basic), Python (Basic), HTML/CSS

Frameworks & Libraries: React.js, Next.js, Node.js, Express.js, Tailwind CSS

Databases & ORM: MongoDB, MySQL, PostgreSQL, Prisma

Blockchain: Solidity

Developer Tools: Git, GitHub, Docker, VS Code, WebSockets, REST APIs

CODING PROFILES & ACHIEVEMENTS

Data Structures & Algorithms: Solved 300+ problems on LeetCode and GeeksforGeeks.

ADDITIONAL INFORMATION

Languages: English (Professional), Hindi (Native)