

Karan Singh Negi

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EDUCATION

Guru Tegh Bahadur Institute of Technology

Bachelor of Technology in Electronics and Communication Engineering

CGPA: 8.74

Sept 2020 – Aug 2024

TECHNICAL SKILLS

Programming Languages: Java, C++, JavaScript, Python, HTML, CSS.

Frameworks & Libraries: React.js, Redux, Next.js, Node.js, Express.js, Flutter, Tailwind CSS, Bootstrap, Material-UI, FastAPI, GSAP, Framer Motion.

Databases: MySQL, PostgreSQL, MongoDB, Firebase, Supabase.

Developer Tools: Android Studio, Visual Studio Code, Git, GitHub, WordPress.

EXPERIENCE

CodeAlpha

Aug 2024 – Nov 2024

Web Development Intern

- Developed responsive web applications using HTML, CSS, JavaScript, Bootstrap, and React.js, ensuring cross-device compatibility and enhanced user experience.
- Worked on real-world projects like Vtube, utilizing Git/GitHub for version control, API integrations, and both front-end and back-end development to build and optimize web solutions.

NSIC TECHNICAL SERVICE CENTER

Mar 2023 – Aug 2023

IoT Solutions Engineer

- Developed IoT-based solutions using platforms such as Linux OS, Raspberry Pi, NodeMCU, and Arduino.
- Collaborated on projects involving multiple sensors, enhancing system efficiency and real-time data processing.

PROJECTS

Place Tracker App | Dart, Firebase, Flutter, Geolocator, Camera, Cloud Firestore, Go-Router | [Project Link](#)

- Enables real-time location tracking and synchronization between multiple users using Firebase's real-time updates.
- Supports cross-platform authentication, sign-up, and profile customization via camera uploads or existing images.
- Integrates GPS & geolocation to display dynamic map markers for users, real-time updates on their movements.
- Allows location sharing with friends, manage accepted requests, and displaying live locations on interactive map.

ChatterBox | Next.js, Typescript, Convex, Tailwind, ShadCN, Clerk, ZegoCloud, OpenAI | [Project Link](#)

- Developed a real-time messaging platform with AI-powered chat responses and image generation using OpenAI.
- Implemented secure authentication using Clerk and cloud-based file storage with Convex.
- Integrated ZegoCloud for seamless video calls and built a modern UI with Tailwind CSS and ShadCN.

VTube Site | React, Redux, Tailwind, GSAP, Firebase | [Project Link](#)

- Developed a dynamic video streaming platform with live YouTube API integration and voice search.
- Used Redux for state management and Firebase for secure authentication and scalable data storage.
- Designed an engaging UI with GSAP animations, dark/light mode, and responsive layouts using Tailwind.

BuyBusy- ECommerce Website | React, Redux, Firebase, Bootstrap | [Project Link](#)

- Developed an e-commerce platform with Firebase for real-time data and secure user authentication.
- Implemented Redux for state management, improving scalability and reducing application complexity.
- Integrated GitHub OAuth for seamless user data retrieval and authentication.
- Designed a responsive and interactive UI using Bootstrap, enhancing user experience across devices.

Huffman Compression Utility | Greedy Algorithms, Binary Trees, Priority Queues | [Project Link](#)

- Built a lossless file compression tool using Huffman Coding for optimal prefix tree-based encoding and decoding.
- Used PriorityQueue for tree construction and HashMap for frequency counts and mappings.
- Developed a user-friendly CLI for seamless compression and decompression of files.
- Implemented efficient error handling and logging for better user feedback and debugging.