Harsh Rana

✉ harshrana8454@gmail.com | ☎ 7351758454 | 🖼 Portfolio | in Linkedin

Education

Graphic Era Deemed to be University Dehradun, Uttarakhand, India	June/2021 - June/2025

B.Tech. - Computer Science and Engineering   CGPA: 7.39

St.Mary's Convent Sr. Sec. School Gajraula, Uttar Pradesh, India	April/2021

P.C.M. - Intermediate   Percentage: 76%

St.Mary's Convent Sr. Sec. School Gajraula, Uttar Pradesh, India	April/2019

High School Percentage: 78.6%

Work Experience

EduChanger Solutions | Full-Stack Web Developer Intern (Remote)

Noida, Uttar Pradesh, India | July/2024 - October/2024

- Built full-stack web apps using **React.js, Node.js, Express.js,** and **MongoDB**. Used **React Query** for optimized data fetching and caching, reducing redundant API calls by **40%** and accelerating development by **30%** with modular, reusable components.
- Engineered single-page applications (SPAs) with **React.js** and **Redux**, improving load time and user responsiveness by **up to 40%**, and collaborated with UI and backend teams to ensure seamless integration.
- Gained hands-on experience in **production-level code**, adhering to best practices and communicating technical challenges and solutions effectively within the team.

Skills

Languages: JavaScript, C++, Java, Python, HTML, CSS
Frameworks, Libraries and Databases: Node.js, Express.js, Tailwind CSS, React.js, MongoDB, MySQL
Tools: VS Code, IntelliJ IDEA, Postman, GitHub
Core Subjects: Database Management System (DBMS), Computer Networking, OOPs Concepts, System Design, SDLC

Projects

SyncSheet | Link   **JavaScript, M.E.R.N., Redux, Socket.io, React Query, Framer Motion, JWT**

1. Developed a MERN-based collaboration platform with real-time document editing using Socket.IO and OAuth-based role access. Utilized **React Query** to optimize data fetching and caching, and implemented **real-time notifications** for document updates and permission changes — improving load time by **35%.**
2. Enhanced the platform with an **AI-powered chatbot** to assist users with writing, answer questions, and provide contextual suggestions, improving document creation and collaboration.

StreamUp | Link   **JavaScript, M.E.R.N., Redux, Cloudinary, Framer Motion, JWT**

1. Built a scalable backend for a video streaming platform with the help of **MERN** stack and **Cloudinary** for video storage, transcoding, and delivery, ensuring efficient performance across devices.
2. Implemented secure authentication with **bcrypt** and **JWT**, and developed RESTful APIs for video uploads, adaptive streaming, and user interactions like likes, comments, and history tracking.

Blogi | Link   **JavaScript, React.js, Tailwind CSS, Appwrite**

1. Created a blogging platform using **React** and **Redux** for state management, integrating **Appwrite** as the backend to handle user authentication, data storage, and API requests.
2. Implemented **TinyMCE** for rich text editing and used **React Forms** for efficient form handling, focusing on a seamless, intuitive user experience with clean, production-level code.

WonderLust | Link   **JavaScript, Node.js, Express, MongoDB, EJS, HTML, CSS**

1. Developed a property listing website using **Node.js** and **Express** for the backend, **MongoDB** for data storage, and **EJS** for interactive content rendering. Integrated Passport.js for secure authentication and **Cloudinary** for efficient image management.

Portfolio Website | Link   **JavaScript, React.js, CSS**

Certifications, Achievements and Profile Links

- **Certificate of Excellence in DSA** (Java) | Link
- **Full Stack Web Development** (M.E.R.N.) | Link
- **Cisco Networking Basics** | Link
- **Solved 620+ DSA questions** on CodeStudio, LeetCode and Geeks For Geeks

○ GitHub
⟨ LeetCode
ᴏɢ GeeksForGeeks
ᕍ CodeStudio