

Nikhil Raj

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Training

React | MERN stack summer training program

Jun 2023 – Jul 2023

- Mastered MERN stack development through intensive hands-on training program
- Built production-grade applications implementing modern web development practices
- Gained expertise in RESTful API design, JWT authentication, and real-time data handling
- Collaborated with peers on group projects, improving team coordination skills

Projects

Chat App | https://github.com/nikhilraj-git/chat_app

Jun 2023 – Aug 2023

- Engineered a scalable chat platform using Socket.IO for real-time message delivery
- Implemented secure user authentication using JWT tokens and bcrypt password hashing
- Optimized MongoDB queries for efficient message retrieval and storage
- Designed responsive UI with React.js ensuring seamless cross-device experience
- Tech Stack: React.js, Node.js, Express.js, MongoDB, Socket.IO, JWT

Mini-Notes App | <https://github.com/nikhilraj-git/notesApp>

Jan 2024 - Jan 2024

- Developed a feature-rich notes application with rich text editing capabilities
- Implemented drag-and-drop functionality for intuitive note organization
- Created responsive layouts using Tailwind CSS for optimal viewing across devices
- Added smooth animations using Framer Motion for enhanced user experience
- Tech Stack: React.js, Tailwind CSS, Framer Motion

Weather App | <https://github.com/nikhilraj-git/weatherApp>

Dec 2023 - Dec 2023

- Built an intuitive weather application with real-time data integration
- Implemented geolocation features for automatic local weather updates
- Optimized API calls to minimize latency and improve user experience
- Tech Stack: HTML5, CSS3, JavaScript, Weather API

Tic-Tac-Toe (C++) | <https://github.com/nikhilraj-git/Tic-Tac-Toe>

Jun 2023 – Jul 2023

- Developed a robust game engine utilizing object-oriented programming principles
- Implemented sophisticated input validation preventing runtime crashes
- Utilized STL containers for efficient game state management
- Tech Stack: C++, STL

Technical Skills

- Frontend Development: React.js, HTML5, CSS3, JavaScript, Tailwind CSS, Bootstrap
- Backend Development: Node.js, Express.js, RESTful APIs, Socket.IO
- Database & Tools: MongoDB, Git, Docker, Jenkins, AWS (EC2)
- Programming Languages: C++, JavaScript
- Core CS Knowledge: Data Structures, Algorithms, OOP, Operating Systems, DBMS, Computer Networks

Certifications

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| • <i>Advanced React by Meta (Coursera)</i> | Apr 2024 |
| • <i>React Basics by Meta (Coursera)</i> | Mar 2024 |
| • <i>Developing front-end apps with react by IBM</i> | Mar 2024 |

Education

Lovely Professional University Punjab

2021 – 2025

Bachelor of Technology in Computer Science and Engineering — CGPA: 7.97

Jalandhar, Punjab

Delhi Public School, Ranchi

2019 – 2020

12th with Science — Percentage: 94.8%

Ranchi, Jharkhand

Bridgeford School, Ranchi

2017 – 2018

10th — Percentage: 95.8%

Ranchi, Jharkhand