

RAHUL ARORA

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Education

Manipal University Jaipur, Jaipur <i>B.Tech in Computer Science & Engineering</i>	2021 – 2025 8.00/10 CGPA
Gurukul Global School, Chandigarh <i>Class XII</i>	2021 80.8%
Bhavan Vidyalaya Panchkula, Panchkula <i>Class X</i>	2019 89.6%

Projects

Ethereum Supply Chain Management Jan 2024 – May 2024

- Developed a decentralized supply chain management system as a minor project in 3rd year using **Next.js**, providing a transparent and immutable record of shipment statuses for users
- Implemented Smart Contracts with **Solidity**, tested using **Hardhat**, and deployed using **Remix**, ensuring secure and automated handling of supply chain data on the Ethereum blockchain
- Integrated **ethers.js** library to facilitate seamless interaction between the frontend and smart contracts, enabling efficient blockchain transactions and data retrieval
- Incorporated **Tailwind CSS** and **Shadcn** for a responsive interface, elevating the overall user experience

Real-time Multiplayer Game - typetowin May 2023 – Jul 2023

- Designed and developed a real-time multiplayer typing game using **React**, **JavaScript**, and **Tailwind CSS**, delivering an engaging and competitive user experience
- Established server-side logic with **Node.js** and **Express**, optimizing game session management and player interactions
- Utilized **MongoDB** for efficient data handling, managing game statistics, and leaderboard information with seamless retrieval
- Integrated **Socket.io** to facilitate real-time bidirectional communication, ensuring instant updates during gameplay

Library Management System Oct 2022 – Dec 2022

- Developed a comprehensive Library Management System using **HTML**, **Tailwind CSS** and **MySQL**, streamlining library operations and enhancing user experience
- Implemented a secure, role-based authentication system, ensuring appropriate access levels for administrators and users
- Developed an intuitive interface for book management, featuring real-time updates for book availability
- Integrated a lending system with personalized user dashboards, enabling efficient book reservations and due date tracking

Technical Skills

Languages: Java, JavaScript, Solidity

Development: HTML, CSS, React, Next.js, Tailwind CSS

Databases: MongoDB, MySQL

Developer Tools: VS Code, Git, GitHub

Positions of Responsibility and Achievements

- Led and coordinated a vibrant community of **800+ students** as part of the **IEEE Student Branch**
- Successfully Completed the **NPTEL** certification examination in **Design and Analysis of Algorithms**
- Collaborated with a team of four to secure 4th place in **MUJ HackX**, competing against **600+ participants**