

Vaibhav Rana

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SUMMARY

Motivated MERN Stack Developer with expertise in building **scalable and user-friendly web applications**. Strong grasp of **Data Structures and Algorithms (Java)** with proven problem-solving skills. Passionate about applying **modern technologies** to create impactful, efficient, and real-world solutions.

EDUCATION

Chitkara University, Patiala

B.E - Computer Science and Engineering

2022 – 2026

Patiala, Punjab

PROJECTS

ShopSphere

2024

- Developed a full-featured **clothing e-commerce platform** built on the MERN stack with dedicated **Admin and User panels**.
- Implemented **role-based access control** and **JWT authentication** to ensure secure user management and order handling.
- Integrated **Stripe payment gateway** for seamless online transactions and order checkout.
- Designed an intuitive **shopping experience** with advanced product filtering, cart management, and order history.
- Optimized backend APIs and database operations using **MongoDB + Mongoose**, resulting in faster data queries and scalability.
- Built responsive UI with **React.js + Tailwind CSS**, delivering a modern and mobile-friendly experience.
- **Links:** GitHub | Live Demo

BookStack

2025

- Created an **online library platform** that enables users to **upload, download, and explore** a wide collection of digital books.
- Built a community-driven system where readers can **connect with like-minded people**, share interests, and recommend books.
- Frontend: Developed using **React.js, Tailwind CSS, SnackBar, Notistack** for a smooth and responsive user experience.
- Backend: Designed using **Node.js, Express.js, MongoDB, Mongoose, CORS**, ensuring secure and scalable operations.
- Implemented **authentication middleware** and access control to secure book uploads/downloads.
- Tested APIs with **Postman** and enforced modular backend structure for maintainability.
- **Links:** GitHub | Live Demo

TECHNICAL SKILLS

Languages: Java, JavaScript, SQL, Python

Web Development (MERN): React, Node.js, Express, MongoDB, HTML5, CSS, Tailwind CSS, Bootstrap, Git, GitHub

Core CS Concepts: Data Structures and Algorithms (Java), Object-Oriented Programming (OOPs), System Design, Operating Systems, DBMS

Other Skills: MySQL, Git Bash

CERTIFICATIONS

- Data Structure and Algorithms(Shradha Khapra) - Apna College
- Complete Web Development(Chai aur code)-Udemy