

DHRUV JINDAL

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SUMMARY

B.Tech Information Technology student with strong foundations in **system design**, algorithms, and scalable backend development. Focused on building extensible, low-latency solutions that enhance digital commerce. Proficient in **C++**, **Python**, **Java**, and experienced with secure APIs, distributed systems, and full-stack development.

TECHNICAL SKILLS

Languages & CS Fundamentals: C++, Java, Python, C, SQL, TypeScript, JavaScript (ES6+), Data Structures & Algorithms (DSA), System Design, Object-Oriented Programming (OOP)

Back-End: Node.js, Express.js, REST APIs, MongoDB, WebSockets (Socket.IO), Stripe API

Front-End: Next.js, React.js, Zustand, Redux, TailwindCSS

Machine Learning: Scikit-learn, Pandas, NumPy, TensorFlow, PyTorch

Developer Tools: Git & GitHub, VS Code, Postman, Vercel

PROJECTS

Real-time Chat Application | [🔗](#)

Apr 2025

- Designed and implemented a **scalable, low-latency messaging system** using **WebSockets (Socket.IO)** to deliver instantaneous updates—a foundational component for an extensible platform.
- Built a robust backend with **five distinct MongoDB data models**, optimized for efficient, large-scale information retrieval and laying a resilient foundation for planned future integration of AI/NLP features.
- Developed a frontend with **13+ unique React components** across five distinct routes, consuming **nine custom API endpoints** for features like real-time messaging, user profiles, and secure media uploads.

Apni Dukaan | *React.js, Node.js, Express, MongoDB, JWT, Stripe* [🔗](#)

Jan 2025

- Engineered a full-stack e-commerce platform that directly addresses **transaction friction** by integrating the **Stripe API** for secure, reliable payment processing.
- Developed a scalable backend with **seven API categories** for comprehensive product, user, and order management, laying the groundwork for a robust digital purchase experience.
- Implemented a secure, **JWT-based authentication** system to safeguard user data and private routes, demonstrating a strong understanding of security protocols critical for digital businesses.

CinemaTrails | *React, Node.js, Express, MongoDB, JWT, GSAP, Stripe* [🔗](#)

Aug 2024

- Led as **Team Lead**, and designed a robust **RESTful API** with **20+ endpoints** to manage complex business logic for a movie booking system, handling real-time availability checks across **six distinct data models**.
- Resolved a **critical concurrency challenge** by implementing deterministic backend logic to handle simultaneous booking requests, preventing race conditions and ensuring data integrity across all user sessions. Improved booking flow reliability by **30%** during concurrency fixes, ensuring smoother user experience under high load.

ACHIEVEMENTS AND CERTIFICATIONS

- Won **2nd place** out of 400+ teams in **HackWithMAIT 5.0** (Microsoft Azure), acting as Team Lead and architecting an ML-powered sign-language detection model. Oct 2024
- Secured **2nd place** in **Stackhack 2.0** (Mercer Mettl) among 300+ national teams as Team Lead, developing a full-stack movie-booking application with a focus on robust backend architecture. Aug 2024
- Won **Frontend Fiesta** among 50+ competitors for building an interactive, responsive interface. Apr 2024
- Earned certification in **Machine Learning & Data Science** from **GeeksforGeeks**, validating foundational knowledge in core AI principles. [🔗](#) Jan 2025

EDUCATION

Maharaja Agrasen Institute of Technology

Delhi, India

Bachelor of Technology in Information Technology, CGPA - 7.99

2022 – Expected July 2026

Aggarwal Public School

Haryana, India

Senior Secondary School in PCM, 92.6%

2022