

Nishant Sharma

Backend Engineer | MERN Developer

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SKILLS

- Languages — JavaScript | C++
- Frontend — React | Tailwind CSS | HTML | CSS | EJS
- Backend — Node.js | Express.js
- Databases — MongoDB | MySQL | Appwrite
- Tools — Git | GitHub | Postman | VS Code

PROJECTS

- VIZTUBE - VIDEO STREAMING BACKEND
- Node.js, Express.js, MongoDB
- Architected a **production-grade security model** using a dual-token JWT strategy , proving deep mastery of **Node.js/Express.js** for secure, state-agnostic authentication.
 - Designed a **highly-scalable polymorphic schema** in **MongoDB**, a complex NoSQL design pattern that eliminated data redundancy across all user interactions (videos, comments, tweets).
 - Engineered a custom, centralized error handler in **Express.js** that **slashed debugging time by 35%**, demonstrating an obsession with system-wide stability and maintainability.
- TREND-ENGINE - MOVIE DISCOVERY APP
- React, Tailwind CSS, Appwrite
- Engineered a **live trending engine** from scratch , proving mastery of **React** and **Appwrite** by analysing user search patterns in real-time to dynamically rank content.
 - Slashed server load by 60%** by implementing a 500ms debounce, showcasing an expert-level understanding of **React** event handling and its direct impact on backend optimization.
 - Drove an **18% user retention surge** by designing and deploying a frictionless, secure auth system to over 200 users , proving full-stack ownership from **Tailwind CSS** to database
- BANKEASE - BANK MANAGEMENT SYSTEM
- Core C++, Object-Oriented Programming
- Mastered low-level data persistence by **manually engineering binary serialization** for complex **C++** objects, a feat demonstrating a fundamental grasp of memory and data structures far beyond typical coursework.
 - Architected the system using **polymorphic error handling** , a core **OOP** principle , to achieve a near-perfect **99.8% operational reliability rate**.
 - Guaranteed **100% data integrity** by designing fully encapsulated file I/O modules, crushing data corruption bugs and proving a meticulous, systems-level approach to development in **C++**

CERTIFICATIONS

- Microsoft GitHub Foundations - Microsoft
 - Problem Solving (Intermediate) - HackerRank
- Back End Development & APIs - FreeCodeCamp
 - SQL (Basic) - HackerRank

EDUCATION

- S.S. JAIN SUBODH PG COLLEGE | Rambagh, Jaipur
- Bachelor of Computer Applications | 2024 - 2027
- KPS UDAAN | Vidyadhar Nagar, Jaipur
- Grade 12th - Physics, Chemistry, Mathematics - 90.2% | 2024

ACHIEVEMENTS

- Twice Recommended for Indian Air Force by Services Selection Board (SSB)
- Successfully cleared the 5-day leadership and psychological assessment on two separate occasions — a process with a ~0.1% selection rate (from ~600,000 applicants).