

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).