SHIVAM KUMAR VERMA

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Education

Indian Institute of Information Technology (IIIT) Nagpur	**Nagpur, Maharashtra**
B.Tech in Computer Science & Engineering, GPA: 7.44/10.0	*Expected May 2026*

Coursework

- Core Subjects: Data Structures and Algorithms, Database Management Systems (DBMS), Object-Oriented Programming (OOP), Computer Networks, Operating Systems

Projects

CodeSM [GitHub] [Live]   **May 2025 – Jun 2025**

Tech Stack: Node.js, React.js, MongoDB, AWS, Docker

- Developed a role-based system to author and store 12 coding problems in AWS buckets, organizing input test cases as text files in structured folders.
- Enabled 6 users to solve problems, with isolated Docker containers handling code execution.
- Designed user profiles using the Shadcn UI library, displaying details and avatars for 4 active users, maintaining daily coding-streak.
- Implemented rate limiting to curb abuse, reducing failed requests and ensuring high availability.

DeepDoc [GitHub] [Live]   **Jan 2025 – Jun 2025**

TechStack: Next.js, Vercel Blob, LangChain, Gemini API, Pinecone

- Built a web app allowing users to upload and query content from 10 PDFs via a chatbot powered by Gemini API.
- Leveraged LangChain to extract text and generate embeddings, storing vectors in Pinecone.
- Developed a responsive Next.js frontend with Multer for secure uploads, supporting more than 4 concurrent users with minimal downtime.

Chatterly [GitHub] [Live]   **Dec 2024 – Apr 2025**

TechStack: Node.js, React, Postgres, Redis

- Engineered a chat system supporting real-time group chats for up to 4 users via WebSockets.
- Optimized Redis caching to reduce message-retrieval latency.
- Integrated MongoDB to persistently store 150 messages and user data for 4 accounts, ensuring data integrity.
- Crafted a responsive React frontend, improving UI responsiveness by 20% during active sessions.

BookTicket [GitHub]   **Jun 2025 – Present**

Tech Stack: Flask, React, PostgreSQL (SQLAlchemy)

- Built a multi-role event-booking platform where users can browse events, view available sessions, and purchase tickets securely.
- Designed RESTful Flask APIs with SQLAlchemy ORM to manage events, sessions, bookings, and role-based permissions, reducing boilerplate by 25%.
- Implemented facilitator dashboard with real-time notifications and booking analytics, enabling hosts to monitor attendee counts and update session details.
- Developed a responsive React UI that lets users track past and upcoming bookings while facilitators manage their events from any device.

Technical Skills

Languages: C++, JavaScript, Python

Technologies & Frameworks: Next.js, React, Node.js, Express.js, WebSockets

Databases & ORMs: PostgreSQL, MongoDB, Redis, Prisma, Drizzle ORM

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

Achievements

- Achieved 3-star rating (1600+) on CodeChef by solving 300+ advanced algorithmic problems
- Secured Pupil Rank (max rating 1260+) on Codeforces, solving 500+ problems to enhance algorithmic skills.
- Achieved a LeetCode (max rating 1756+) by solving 200+ problems
- Completed 150+ problems on CSES Problem Set covering advanced algorithms like segment trees and graph traversal
- Achieved Global Rank 39 in CodeChef Starters 195 contest as mahavir99