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 & Algorithms, Database Management Systems (DBMS), Object-Oriented Programming (OOP), Computer Networks, Operating Systems

Projects

CodeSM [GitHub] | **May 2025 – Jun 2025**
Tech Stack: Node.js, React.js, MongoDB, AWS, Docker

- Developed a role-based system for creators to author and store coding problems in AWS S3 buckets, with input test cases saved as text files in dedicated folders.
- Enabled users to select and solve problems, with code execution handled securely via Docker containers to validate submissions and provide output feedback.
- Designed user profiles using the Shadcn UI library, displaying user details, profile images, and coding streaks for enhanced engagement.
- Implemented rate-limiting algorithms to protect the platform from denial-of-service (DoS) attacks, ensuring robust security and performance.

ShortifyAI [GitHub] | **Jan 2025 – Jun 2025**
Tech Stack: Next.js, JavaScript, Gemini API

- Created a form-based interface for users to input an image, topic, and duration to generate video content.
- Utilized Gemini API to convert generated content into audio, enhancing the video creation process.
- Implemented a streamlined workflow to process user inputs and produce short videos efficiently.

Chatterly [GitHub] | **Dec 2024 – Apr 2025**
Tech Stack: Node.js, React, MongoDB, Redis

- Designed a scalable chat system allowing multiple users to join and communicate in real-time using WebSockets.
- Utilized Redis for optimizing message storage and retrieval, ensuring low-latency performance for group chats.
- Integrated MongoDB for persistent storage of user data and chat history, enabling seamless data management.
- Developed a responsive frontend with React, providing an intuitive interface for real-time user interactions.

Technical Skills

Languages: C++, JavaScript, TypeScript, 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 strengthen problem-solving skills.
- Ranked in the top 25% on LeetCode, specializing in Dynamic Programming and Graph algorithms.
- Completed 100+ problems on CSES Problem Set, covering advanced algorithms and data structures.