

# Shivam Kumar Verma

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## EDUCATION

Indian Institute of Information Technology Nagpur

Bachelor of Technology in Computer Science

Nov 2022 – Present

Nagpur, India

## TECHNICAL SKILLS

- **Languages:** C/C++, JavaScript, TypeScript, Python
- **Frontend:** React, Next.js
- **Backend:** Node.js, Express.js, REST APIs, WebSockets
- **Databases:** PostgreSQL, MySQL, MongoDB, Prisma
- **Tools:** Git, Docker, GitHub Actions, Postman, VS Code

## PROJECTS

### AI Short Video Generator

Dec 2024 - Present

- Developed an AI-powered short video generation platform, automating content creation and streamlining video production workflows.
- Engineered a text-to-video conversion pipeline using OpenAI's GPT-4, generating dynamic scripts and enhancing content engagement.
- Integrated AI-driven voiceovers and auto-generated subtitles, improving accessibility and user experience.
- Optimized video rendering architecture, reducing processing time by 40% and enabling real-time previews.
- Implemented secure and scalable payment processing via Stripe, leveraging WebSockets for real-time transaction tracking.
- Designed a fully automated system that minimizes manual effort, making high-quality video creation more efficient and accessible.

### DevBytes - Medium

Jan 2025 - Present

- Built a full-stack Medium-like blogging platform using Next.js, Node.js, and MongoDB.
- Implemented rich text editing, user authentication, and role-based access control.
- Optimized database queries and API responses, reducing load time by 30%.
- Integrated JWT-based authentication and OAuth for secure user login.
- Designed a scalable backend with RESTful APIs, supporting high traffic and real-time interactions.

### ScalableTodo

Dec 2024 - Present

- Built a scalable task management application with Next.js, React, PostgreSQL, and Prisma ORM.
- Implemented user authentication with signup, login, and role-based access control using middleware.
- Developed full CRUD operations with optimized database handling through normalization.
- Integrated an efficiency tracking system to analyze daily productivity based on completed tasks.
- Designed a responsive and interactive UI, enhancing user experience and engagement.
- Leveraged Prisma ORM for efficient and secure database operations, ensuring data consistency and scalability.

## ACHIEVEMENTS

- Achieved 3-star rating (1600+) on [CodeChef](#) by solving 300+ advanced algorithmic problems.
- Secured 1097+ rating 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.