

Vikash Kumar Pathak

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SKILLS

Languages:	C++, Java, JavaScript
Frameworks:	React.js, Express.js, Node.js, MongoDB
Tools/Platforms:	Git, GitHub, MySQL, Redux, Postman, Vercel, Canva, Vite
Soft Skills:	Teamwork, Rapport Building, Collaboration and Active listening
Coursework:	Data Structures & Algorithms, Object-Oriented Programming, Database Management System

PROJECTS

Real-Time Collaborative Coding Platform January, 2025

- Engineered a real-time collaborative coding platform using React.js, featuring an intuitive dashboard where users can seamlessly create, join, and manage coding spaces, fostering efficient team collaboration.
- Designed a high-performance backend with Node.js & Express.js, leveraging Socket.io for ultra-responsive, real-time code synchronization, while MongoDB ensures scalable storage of user data, project details, and session history.
- Implemented robust security with JWT-based authentication middleware, enabling secure user access, alongside advanced customization options including password management, light/dark mode, dynamic themes, and adjustable font sizes for a fully personalized coding experience.
- Tech:** React.js, Express.js, Node.js, MongoDB.

Chat App: Realtime Chat Application November, 2024

- Built a real-time chat application with secure login and registration using JWT authentication, reducing unauthorized access, while ensuring data privacy and improving security with encrypted communication.
- Integrated Socket.IO to enable instant messaging with message delivery latency of under 100ms, ensuring seamless real-time updates and enhancing user experience with low-latency communication.
- Enhanced server performance to support 500+ concurrent users, maintaining stable, low-latency connections.
- Tech:** React.js, Express.js, Node.js, MongoDB.

Confetti Calculator September, 2024

- Built a React-based scientific calculator with advanced mathematical functions and an intuitive UI.
- Implemented confetti animations using react-confetti-explosion, enhancing user interaction by providing visually engaging feedback during key actions.
- Deployed on Vercel, optimizing performance and cross-platform accessibility (including iOS).
- Tech:** React.js

ACHIEVEMENTS

- Solved 200+ LeetCode problems.**
Demonstrating strong analytical and algorithmic skills.
- Achieved a 5-Star proficiency badge in C++ on HackerRank.**
Demonstrating advanced coding, algorithmic skills, and technical skills, while consistently at a high level in competitive coding challenges.

CERTIFICATES

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| Data Structures and Algorithms (Self-Paced) <i>GeeksforGeeks</i> | July, 2024 |
| Server-side JavaScript with Node.js <i>NIIT</i> | April, 2024 |
| Programming in C++ <i>Codio</i> | February, 2024 |
| The Bits and Bytes of Computer Networking <i>Google</i> | February, 2024 |

EDUCATION

Lovely Professional University	Phagwara, Punjab
Bachelor of Technology	Since August 2022
Computer Science and Engineering; CGPA: 7.75	

Gyanada International School	Gopalganj, Bihar
Intermediate	April, 2019 – March, 2021
PCM; Percentage: 75%	

D.A.V. Public School	Gopalganj, Bihar
Matriculation	April, 2018 – March, 2019
Percentage: 82%	