

VIKASH KUMAR SINGH

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SUMMARY

MERN Stack Developer with hands-on experience building end-to-end web applications. Skilled in API development, working with REST APIs, and implementing authentication and database handling for scalable applications. Strong problem-solving skills with a solid foundation in core computer science concepts

TECHNICAL SKILLS

Languages: C, C++, JavaScript (ES6+), HTML5, CSS3

Frontend: React.js, Bootstrap, Responsive Web Design, DOM Manipulation

Backend: Node.js, Express.js, RESTful APIs

Databases: MongoDB, MySQL

Tools: Git, GitHub, Postman, VS Code, Render

PROJECTS

Amazon Clone

[Source Code](#)

- Developed a fully responsive Amazon-style e-commerce front-end using semantic HTML5 and modular CSS.
- Implemented hover effects, transitions, and card-based product UI for enhanced visual interaction.
- Created a mobile-first design to ensure cross-device compatibility and smooth user experience.
- Designed reusable CSS classes to maintain scalable, maintainable styling architecture for the entire site.

Simon Game

[Source Code](#)

- Implemented game logic including random sequence generation, user input tracking, and validation algorithms.
- Utilized event-driven programming to handle user interactions, button presses, and game-state transitions.
- Optimized DOM manipulation and timing functions (setTimeout, async flow) for smooth gameplay.
- Designed a responsive UI with CSS animations and color transitions to simulate the original Simon device.

Airbnb Clone

[Link](#) | [Source Code](#)

- Developed and deployed a full-stack Airbnb clone using Node.js, Express.js, and EJS, following MVC architecture with modular routes, controllers, models, and utilities for maintainable code.
- Implemented secure user authentication and authorization with Passport.js, session management, and protected routes, along with full CRUD functionality for listings, reviews, and categories.
- Integrated MongoDB Atlas as a cloud database using Mongoose, modeling relationships, validating data, and optimizing queries for reliable and scalable data management.
- Deployed the production-ready application on Render, configuring environment variables, centralized error handling, and production settings to ensure stability and security.

EDUCATION

Bundelkhand Institute of Engineering and Technology

Bachelor of Technology in Computer Science And Engineering

Nov 2023-May 2027

(YGPA: 8.02 till 4th sem)

Shakti Shanti Academy, Bihar, India

2021-22

CBSE(Class XII PCM, Percentage: 83.8

Shakti Shanti Academy, Bihar, India

2019-20

CBSE(Class X, Percentage: 89

ACHIEVEMENTS

Leetcode — *100+ problems solved*

Winner — *Ideation event organized by the Computer Science Students' Council*

POSITIONS OF RESPONSIBILITY

Training and Placement Cell, B.I.E.T, Jhansi — Coordinator

2023-Present