

# Bhupender Singh

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## PROFESSIONAL SUMMARY

MERN Stack Developer with expertise in building scalable, responsive web applications using React.js, Node.js, Express.js, and MongoDB. Proven ability to architect and deploy full-stack solutions with focus on performance optimization, clean code practices, and user-centric design. Experienced in RESTful API development, authentication systems, and modern JavaScript (ES6+) development workflows.

## TECHNICAL SKILLS

**Frontend:** React.js, JavaScript (ES6+), HTML5, CSS3, Bootstrap, Responsive Design, React Hooks, React Router, SPA  
**Backend:** Node.js, Express.js, MongoDB, RESTful APIs, Authentication, JWT, Server-side Development  
**Tools & Technologies:** Git, GitHub, npm, Webpack, REST API Integration, Component-based Architecture  
**Core Competencies:** Full-stack Development, State Management, Performance Optimization, Database Design, Agile Development

## TECHNICAL PROJECTS

- YouTube Clone** | *React.js, REST API, YouTube Data API v3, Responsive Design* 2026
  - Engineered a full-featured video streaming platform replicating YouTube's core functionality with 50+ components
  - Integrated YouTube Data API v3 to fetch and display real-time video data, search results, and trending content
  - Implemented advanced features including video playback, search functionality, responsive grid layouts, and infinite scrolling
  - Optimized component rendering using React.memo and useMemo, reducing re-renders by 40%
- Full-Stack Authentication System** | *MERN Stack, JWT, bcrypt, Express Middleware* 2025
  - Developed secure user authentication system with JWT-based token management and password encryption using bcrypt
  - Built RESTful API endpoints for user registration, login, logout, and protected routes with Express.js middleware
  - Implemented MongoDB schemas with Mongoose for efficient user data modeling and validation
  - Created responsive frontend with React Router for seamless navigation and protected route management
- Real-Time Weather Application** | *React.js, OpenWeatherMap API, Geolocation API, CSS3* 2025
  - Built dynamic weather app fetching real-time meteorological data from OpenWeatherMap API for 200+ cities
  - Integrated browser Geolocation API for automatic location detection and personalized weather information
  - Designed intuitive UI with conditional rendering, displaying weather icons, temperature, humidity, and 5-day forecasts
  - Implemented error handling and loading states for enhanced user experience across all network conditions
- Interactive Task Management App** | *React.js, Local Storage API, State Management, CRUD Operations* 2025
  - Developed full CRUD functionality for task management with persistent data storage using Local Storage API
  - Implemented React Hooks (useState, useEffect, useContext) for efficient state management and side effects
  - Created reusable components with props validation and component composition for maintainable codebase
  - Added filtering, sorting, and search capabilities processing 100+ tasks with optimized performance
- Browser-Based Game Collection** | *JavaScript, HTML5 Canvas, DOM Manipulation, Event Handling* 2024
  - Designed and developed multiple interactive games using vanilla JavaScript, HTML5 Canvas API, and CSS animations
  - Implemented game logic including collision detection, score tracking, level progression, and user input handling
  - Optimized rendering performance using requestAnimationFrame for smooth 60 FPS gameplay experience

## EDUCATION

**JB Institute of Engineering and Technology** India

*Bachelor of Computer Applications (BCA) - Computer Science* Graduated 2026

**Dice Academy Delhi** India

*Full Stack Web Development - Professional Certification* 2024 - 2025

## ADDITIONAL INFORMATION

**Achievements:** Built 10+ production-ready projects demonstrating full-stack capabilities and modern development practices  
**Learning:** Currently advancing skills in microservices architecture, TypeScript, GraphQL, and cloud deployment (AWS)  
**Interests:** Open-source contribution, competitive programming, UI/UX design, web performance optimization