

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