

Rishabh Paliwal

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Education

VIT Bhopal University, Bhopal, Madhya Pradesh

Bachelor of Technology in Computer Science and Engineering

Relevant Coursework: Data Structures & Algorithms, Database Management Systems, Object-Oriented Programming, Web Development

2022 – 2026

CGPA: 8.51/10.0

Overview

Aspiring Software Engineer with a strong academic foundation and hands-on experience in Full-Stack Development in MERN stack with work in modern web technologies. Eager to contribute skills in software development.

Technical Expertise

- **Languages:** C++, Python, JavaScript ES6+, TypeScript, Java, SQL, HTML5, CSS3
- **Frontend:** React.js, Tailwind CSS, Bootstrap, Material-UI, Responsive Design
- **Backend:** Node.js, Express.js, MongoDB, Mongoose ODM, RESTful APIs, JWT Authentication
- **Database:** MongoDB, MySQL, PostgreSQL, Query Optimization, Indexing
- **Cloud & Tools:** AWS, Docker, Git, GitHub, VS Code, Postman, npm
- **Security:** JWT Tokens, bcrypt, CORS, Input Validation

Technical Projects

Expenso : Personal Expense Tracker Application MERN Stack & JWT

[GitHub]

Project Overview: Comprehensive personal finance management system built with Node.js/Express.js backend and React.js frontend, enabling users to track expenses.

- Engineered full-stack personal finance application using **MERN Stack** with MongoDB database integration, improving expense categorization accuracy by **40%** through intelligent data analysis algorithms
- Implemented secure **JWT-based authentication system** with password hashing, **24-hour token expiration**, session management, and automated refresh mechanisms ensuring data security and user privacy protection
- Developed **role-based routing architecture** using Express.js middleware functions for request processing, input validation, error handling, and access control across different user permission levels with **15+ API endpoints**.
- Integrated **MongoDB database** with Mongoose ODM for optimized data modeling, **3 collections**, schema validation, indexing strategies.
- **Technologies Used:** Node.js, Express.js, MongoDB, React.js, Tailwind CSS, JWT, bcrypt, Mongoose, Axios, CORS

Blogify : Full-Stack Blog Management Platform MERN Stack & Cloudinary

[GitHub]

Project Overview: Enterprise-grade content management system supporting multi-user blog creation, management, and publishing with advanced features including image optimization, role-based access control.

- Developed **role-based access control (RBAC)** system with **2 user roles** (admin, user roles), implementing granular permissions for content creation, editing, and publishing across different access levels
- Worked on **full-stack blog platform** supporting multi-user content creation workflows with scalable microservices architecture handling **1000+ concurrent users**
- Integrated **Cloudinary cloud storage** for seamless image upload, optimization, and delivery with automatic resizing, format conversion, and CDN distribution for **60% faster loading times**
- Engineered **responsive user interface** using React.js with component-based architecture, React Router for navigation managing **8+ protected routes**, and state management for optimal user experience.
- **Technologies Used:** MongoDB, Express.js, React.js, Node.js, JWT, Cloudinary, Tailwind CSS, Axios, bcrypt, Mongoose

Leadership & Professional Experience

Cultural Club - Design Lead & Head of Events

- Led **cross-functional event planning teams** for 1.5 years, managing **10+ large-scale campus events** with **200+ attendees**, demonstrating project management and leadership capabilities
- Directed **creative design initiatives** for event promotions, digital content creation, social media campaigns.
- Led **8-member team** delivering successful events

Certifications & Recognition

- **MERN Full-Stack Development Certification** by SmartBridge (April 2025) - Advanced React.js development with Hooks, Node.js backend development, MongoDB integration.
- **MongoDB Node.js Developer Path** by MongoDB University (April 2025) - Database design optimization, Node.js integration with MongoDB, performance tuning, and security best practices
- **DevOps Fundamentals Certification** (April 2025) - CI/CD implementation, Infrastructure as Code, monitoring systems, and container orchestration with microservices architecture

Additional Information

Languages: English (Professional Working Proficiency), Hindi (Native Speaker)

Personal Interests: Swimming, Football, Yoga, Fitness