# Rishabh Paliwal

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## Education

**VIT Bhopal University ,** Bhopal , Madhya Pradesh                                        2022-2026

BTECH (Computer Science and Engineering)                                        GPA:8.54/10

## Technical Skills

- **Languages:** C++, JavaScript (ES6+), HTML, TypeScript, SQL
- **Relevant Coursework**: Data Structures & Algorithms, DBMS, OOPs, OS, System Design
- **Frontend & Backend :** React.js, Bootstrap**,** Node.js, Express.js, REST APIs, JWT Authentication
- **Databases & Cloud/Tools :** MongoDB, AWS, Git, GitHub

## Projects

**Astrologix: Astrology Consultation Platform –** MERN Stack [Code]                    Aug2025 – Sep2025

- Developed a full-stack consultation platform handling **100+ concurrent users** .
- Designed and optimized MongoDB schema with Mongoose for user profiles, appointment scheduling, and analytics, ensuring **low-latency queries**.
- Integrated third-party APIs (Daily.co, payment gateway) and deployed a production-ready system with automated monitoring, achieving **99.9% uptime**.

**ElectroRent : Full-Stack Rental Platform –** MERN Stack, CRUD [Code]                    Jan2025 – Mar2025

- Full-stack MERN application with **15+ RESTful APIs** and JWT-based authentication
- Integrated Razorpay payment gateway processing transactions with **webhook verification**
- Built dynamic booking system with status tracking and automated email/SMS notifications
- Deployed using modern DevOps: **Vercel** (frontend), **Render** (backend), MongoDB Atlas (database)

**OPSIM++ : OS & Algorithm Simulator Suite–** c++, Batchfile [Code]                    Mar2024 – Apr2024

- Developed a C++ simulation suite with **4** modules: CPU Scheduling, Multithreading, Sorting Visualization, and Dijkstra's Shortest Path algorithm.
- Implemented **5+** CPU scheduling and **6+** sorting algorithms featuring performance metrics, visualizations, and Gantt chart displays.
- Designed multithreading tests supporting **12+** threads, analyzing execution speedup and demonstrating parallel processing benefits.

## Certifications

• MERN Full-Stack Development (SmartBridge)                                        April 2025
• MongoDB Node.js Developer (MongoDB University)                                        April 2025

## Extracurricular

- Organized 4 cultural events for 200+ attendees as a member of the Rajasthani Club.
- Solved 300+ problems on LeetCode/GFG; achieved a top 10% rank in coding contests.
- Competed at the district level for 2 years in football and swimming, participating in 9+ tournaments.
- Collaborated with National Service Scheme (NSS) volunteers to facilitate 7+ events and competitions.