

Rishabh Paliwal

rishabh.kp.04@gmail.com | Github Profile | 6377052714 | LinkedIn Profile | Portfolio Website

Skills

Languages: C++, JavaScript (ES6+), Python

Full-Stack: React, Node.js, Express.js, REST APIs, Webhooks, Authentication

Systems & Tools: MongoDB, SQL, Slot-Based Inventory Systems, Razorpay, Git, Postman, Vercel

Projects

AI-Powered Distributed Web Application (Rental Platform)

GitHub | Live | Jan 2026

- Designed and built a scalable full-stack application using **React**.
- Implemented **streaming responses** to support real-time interactions with **multiple LLMs**.
- Engineered **dynamic model-routing** logic to integrate **multiple API endpoints**.
- Applied **asynchronous request handling** and efficient **state management**.

AstroAryabhatta — Consultation-Based Booking Platform

GitHub | Live | Jan 2026

- Designed a real-world **time-slot inventory system** for consultation-based services.
- Implemented **secure payment-confirmed booking** using **Razorpay webhooks**.
- Built a **multilingual (Hindi/English), mobile-first, SEO-ready UI**.
- Separated **public availability APIs** from **protected booking operations** to prevent misuse.
- Focused on **trust-driven UX** suitable for professional and academic consultation platforms.

C++ OS and Algorithm Simulator

GitHub | Oct 2026

- Built a modular **C++** simulation suite to study **OS internals** and **algorithmic behavior**.
- Implemented **CPU scheduling** strategies and evaluated performance using **Gantt charts**.
- Designed **multithreaded execution** models using **12+ threads**, analyzing efficiency.
- Analyzed **algorithmic complexity** through implementations of **sorting algorithms**.

Certificates

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| • System of Prompt Engineering (Udemy) | Jan 2026 |
| • MongoDB Node.js Developer (MongoDB University) | April 2025 |
| • MERN Full-Stack Development (SmartBridge) | April 2025 |

Education

Bachelor's Degree — Computer Science and Engineering

Vellore Institute of Technology

Aug 2026

CGPA: 8.50 / 10

Extracurricular

- Led a **team of 8+ members for 2 years**, coordinating development and design initiatives.
- Proposed and implemented design solutions that **increased the club's social media presence** and engagement.
- Solved **300+ Data Structures and Algorithms problems** across arrays, strings, trees, graphs, and DP.