# Rishabh Paliwal

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## Skills

**Programming:** C++, JavaScript, Python
**Web:** HTML, CSS, React
**Backend:** Node.js, Express.js, REST APIs, JWT Authentication
**Databases:** MongoDB, SQL
**Tools:** Git, GitHub, Postman, mockAPI

## Projects

**AI-Powered Distributed Web Application**                    GitHub | Nov 2025 – Jan 2026
- Designed and built a scalable full-stack application using **React (library)**.
- **Streaming responses** to support real-time interactions with **multiple LLMs**.
- Engineered **dynamic model-routing** logic to integrate **multiple API endpoints**.
- **Asynchronous** request handling and efficient **state management**.

**Astrologix — Scalable MERN-Based Real-Time Platform**                    GitHub | Sep 2025 – Nov 2026
- Lead four member team designing and implementing consultancy system.
- **Slot management** and notification pipeline using **NodeMailer**.
- Integrated video communication and payment workflows.
- Implemented **CRUD** operation and **role based access control**.

**C++ OS and Algorithm Simulator**                    GitHub | Aug 2025 – Sep 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

- 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**                    Aug 2026
Vellore Institute of Technology                    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.