

# Rishabh Paliwal

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## Education

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### Vellore Institute Of Technology

2022-2026

B.TECH (Computer Science and Engineering)

GPA:8.5/10

## Technical Skills

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- **Languages:** C++, Python, JavaScript , HTML, SQL
  - **Frontend & Backend :** React.js, Bootstrap, Node.js, Express.js, REST APIs, JWT Authentication
  - **Databases & Cloud/Tools :** MongoDB, AWS, Git, GitHub
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## Projects

### Astrologix: Astrology Consultation Platform – MERN Stack [[Code](#)]

July2025 – 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 .

### OPSIM++ : OS & Algorithm Simulator Suite– c++, Batchfile [[Code](#)]

Apr2024 – June2024

- 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.

### 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)
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## Certifications

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