

# Himanshu Raj

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## SKILLS

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**Languages:** C/C++, Java, Python, JavaScript, TypeScript, Kotlin  
**Core CS:** Data Structures & Algorithms, OOPS, DBMS, OS, CN  
**Frontend:** React.js, Next.js, HTML5, CSS3, Tailwind CSS  
**Backend:** Node.js, Express.js, REST APIs, JWT Authentication  
**Databases:** MongoDB, PostgreSQL, MySQL  
**Libraries & Tools:** Pandas, NumPy, Scikit-Learn, PowerBI, Docker, AWS  
**Developer Tools:** Git, VS Code, Android Studio, Jupyter Notebook  
**Soft Skills:** Problem Solving, Team Management, Logic Building

## PROJECT

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**Apna Lakshay LMS | Full-Stack Web Application** [Link](#) Jan 2026  
**Tech:** React.js, Node.js, Express.js, MongoDB, Socket.io, Tailwind CSS, Cloudinary, Vercel  
**Built** a full-stack library management system for student registration, seat allocation, and fee tracking.  
**Developed** a real-time seat booking interface with multi-floor support and shift scheduling (Day/Night).  
**Implemented** live chat (Public/Group/Private) using Socket.io with secure media uploads via Cloudinary.  
**Integrated** QR-based student identification and attendance tracking system.  
**Deployed** the application on Vercel with REST API architecture.

**QuickBlog | AI-Powered Blogging Platform** [Link](#) Sep 2025  
**Tech:** React.js, Node.js, Express.js, MongoDB, Tailwind CSS, Google Gemini API  
**Developed** a blogging platform supporting AI-generated content and user comments.  
**Integrated** Gemini API for automated blog content generation.  
**Built** secure authentication using JWT with role-based admin dashboard.  
**Designed** RESTful APIs for blog management and media uploads.  
**Improved** performance by optimizing API calls and database queries.

**RouteOptima | Graph-Based Path Optimization System** [Link](#) Jul 2025  
**Tech:** HTML, CSS, JavaScript, Tailwind CSS, Dijkstra's Algorithm  
**Built** an interactive web application to compute shortest paths in weighted graphs.  
**Implemented** Dijkstra's Algorithm for route optimization between nodes.  
**Developed** real-time SVG-based graph visualization with animated node traversal.  
**Created** step-by-step algorithm execution view for better understanding of path calculation.  
**Designed** responsive UI with dark mode support.

## CERTIFICATES

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Decode C++ With DSA Course – PW SKILLS [Link](#) Sep 2025  
Logic Building, Programming & Data Structures – LPU [Link](#) Jul 2025  
Cloud Computing – NPTEL [Link](#) Apr 2025  
Design and analysis of algorithms – NPTEL [Link](#) Mar 2025

## ACHIEVEMENTS

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### HackerRank

5 Star in C++ and Java on HackerRank, showcasing strong algorithmic problem-solving skills.

### LeetCode

Strong foundation in algorithmic thinking with consistent focus on efficiency, correctness, and structured solution design.

## EDUCATION

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**Lovely Professional University** Punjab, India  
Bachelor of Technology - Computer Science and Engineering; **CGPA: 7.09** Since Aug 2023

**DR. I.S.N.R.K.P.L.D Kisan College** Sitamarhi, Bihar  
Intermediate; **Percentage: 78.20%** Apr 2020 - Mar 2022

**Sitamarhi Central School** Sitamarhi, Bihar  
Matriculation; **Percentage: 69.20%** Apr 2019 - Mar 2020