

SHIVAM CHAUHAN

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Education

Invertis University

B.Tech in Computer Science and Engineering

Bareilly, UP

2024 – 2028 (Expected)

Ramhit Memorial Inter College

Senior Secondary (Class XII, UP Board)

Bareilly, UP

2023 – 2024

Technical Skills

Languages: Java, JavaScript, C, C++, Python, TypeScript, SQL, HTML, CSS

Backend: Node.js, Express.js, REST APIs, Firebase

Frontend: React.js, Next.js, Tailwind CSS, HTML5, CSS3, JavaScript ES6+

Databases: MongoDB, SQL, DBMS

Cloud & Tools: Git, GitHub, VS Code, Postman, Render, Vercel

Core CS: Data Structures & Algorithms (DSA), OOP, Operating Systems (OS), Computer Networks

Experience

Software Development Engineer / Freelance Developer

2024 – Present

Software Projects & Open Source Contributions

Bareilly, UP

- **Architected and built** scalable full-stack web applications using React, TypeScript, Node.js, and Express with end-to-end ownership.
- **Designed RESTful APIs** with modular MVC architecture, reducing route execution times and query latency by **~30%**.
- **Engineered responsive user interfaces** and custom interactive 3D web canvases using modern JavaScript (ES6+), GSAP, and Tailwind CSS.

Projects

Smart Agriculture Analytic System | GitHub | Live

Jan 2026 – Present

Python, Machine Learning, Data Analytics, Render, HTML/CSS

- Built a full-stack **predictive agricultural analytics system** delivering real-time soil analysis and crop yield forecasts.
- Implemented clean data preprocessing pipelines and trained **machine learning algorithms** for high prediction accuracy.
- Deployed end-to-end cloud solution on **Render** with high availability and fully responsive user interface.

Hostel Management System (NexStayy) | GitHub | Live

2025 – Present

Node.js, Express.js, MongoDB / SQL, REST APIs, HTML5, CSS3, JavaScript

- Architected an automated **Hostel Management System** to streamline student room allocations, fee record tracking, and administrative workflows.
- Engineered secure **role-based access control (RBAC)** for administrators and student residents with encrypted session handling and modular database schemas.
- Implemented interactive admin dashboards for real-time room occupancy analytics, complaint management, and automated reporting.

Achievements

- **Solved 100+ DSA problems** across LeetCode, GeeksforGeeks, and HackerRank focusing on core algorithms and data structures.
- Earned **5-Star rating on HackerRank** in Problem Solving.
- Active competitive programmer on **LeetCode** (joinupshivam) practicing Arrays, Trees, Dynamic Programming, and Greedy algorithms.
- Ranked top performer in Computer Science core engineering courses and algorithmic contests.

Certifications

- **LLM For Young Developers - Foundational Course** | Invertis University 2026
- **Virtual Internship Java Full Stack Developer** | AICTE – EduSkills 2026
- **Infinity PDP & Skill Development Certification** | Invertis University 2025
- **Complete Guide to C Programming Foundations** | LinkedIn 2025