

# Piyush Kumar

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## PROFILE

B.Tech Computer Science student (4th year) and MERN Stack Developer experienced in building APIs and frontends using React and Node.js. Strong problem-solving skills and a team player passionate about writing clean, scalable code. Eager to contribute to real-world projects and grow in a collaborative tech environment.

## EDUCATION

Galgotias University

**Bachelor of Technology** in in Computer Science and Engineering (**8.58 CGPA**)

Greater Noida, India

2022 – 2026

## SKILLS

**Language:** Java, JavaScript, HTML, CSS

**Frameworks & Libraries :** React.js, Node.js, Express.js

**Tools & Platforms:** Postman, MongoDB , MySQL,LeetCode

## PROJECTS

### Path Algorithm Visualizer

April/25 – May/25

- Developed an **interactive React application** visualizing BFS, DFS, and Dijkstra's algorithm with **real-time step-by-step animations** on a dynamic grid.
- Engineered the **UI/UX with HTML, CSS, and React** to enable intuitive path tracking, node manipulation, and algorithm selection.
- Enhanced user comprehension of core algorithms through **visual feedback**, improving learning efficiency for key pathfinding concepts

### Book Store API

Jan/25 – Feb/25

- Engineered a secure RESTful API for bookstore management using **Node.js, Express.js, and MongoDB/Mongoose**, implementing full **CRUD operations** for books, users, and orders.
- Architected **JWT-based authentication** and **role-based access control (RBAC)** to enforce granular security policies for users and administrators.
- Optimized API performance and reliability by implementing input validation, error handling, and efficient database querying techniques.

## CERTIFICATIONS

- Certified in **Software Engineering** by **NPTEL** (IIT Online Platform).
- Completed coursework covering Software Development Life Cycle (SDLC), **Agile methodologies**, design principles, testing, and project management.
- Strengthened theoretical and practical understanding of modern software engineering practices, with emphasis on Agile and iterative development approaches.

## ACHIEVEMENTS

- Solved 800+ problems on Coding Platforms including CSES, Codeforces,LeetCode & GFG strengthening problem-solving and algorithm skills.
- Ranked in the **Top 30%** globally in LeetCode contests.
- Achieved **200+ days of submission streaks** in 2023 and 2024, and **100+ days streak** in 2025.