

PRIYANSHU SINGH

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 github.com/priyanshu-48  leetcode.com/u/priyanshu_88

Education

B.Tech in Electronics and Communication Engineering

2022-2026(Expected)

Vellore Institute of Technology, Vellore

CGPA: 8.86

AISSCE

2022

Delhi Public School, Siliguri

85.2%

AISSE

2020

Delhi Public School, Siliguri

95.4%

Projects

Distraction Tracker

- Developed a full-stack productivity tool integrating a **Chrome Extension**, **React dashboard**, and **Node.js + PostgreSQL** backend to track and visualize user distractions patterns.
- Built a dashboard with 6+ interactive **Recharts visualizations** supporting daily/weekly analytics and real-time session tracking (<200ms latency).
- Designed a secure backend with **12+ REST endpoints**, **JWT authentication**, and **bcrypt-based password protection**, ensuring multi-user data security.
- Structured extension, client, and server into **modular, scalable components** for maintainability and future feature expansion.
- **Tech Stack:** React, Tailwind CSS, Recharts, Node.js, Express.js, PostgreSQL, Chrome Extension (Manifest V3), JWT Auth.

Pathfinding Visualizer

- Built an interactive web application using **React** to visualize shortest path algorithms, with a focus on **Dijkstra's algorithm**.
- Designed a 50×50 dynamic grid interface where users can set **start/end nodes**, **draw 100+ walls**, and **adjust animation speed**.
- Implemented Dijkstra's algorithm from scratch in JavaScript, rendering 1,000+ node explorations with smooth, step-by-step animation.
- Enabled **drag-and-drop grid manipulation**— (start/end repositioning, wall creation) with real-time, responsive feedback.
- **Tech Stack:** React, Vite, TailwindCSS, JavaScript, ESLint.

Skills

Languages: C++, JavaScript

Frontend: HTML, CSS, React, Tailwind, Bootstrap, Recharts.js


Backend: Node.js, Express.js, PostgreSQL, JWT Auth

Tools: Postman, Git, Chrome Extension (Manifest V3)

Coursework

- Object Oriented Programming
- Computer Networks
- Operating Systems
- Database Management Systems

Achievements & Certifications

- Solved **500+** Data Structures and Algorithms problems across coding platforms. 
- Rated **1617** in Leetcode Contests(Top 20%)
- Full-Stack Web Development Bootcamp – Udemy (Angela Yu, 2025) 