Ribhav Singla

9815653691 | ribhav.singla@outlook.com

LinkedIn | LeetCode | GitHub | Portfolio

EDUCATION

Panjab University   CGPA: 9.17
Bachelor of Engineering in Computer Science and Engineering (ongoing)   *Nov. 2022 – May 2026(exp.)*

TECHNICAL SKILLS

Subjects: Data Structures, Algorithms, OOPS, OS, DBMS
Languages: C/C++, JavaScript, TypeScript, HTML/CSS,SQL
Libraries/Frameworks: Next.js, React, Node.js, Express, Redux, Recoil, Tailwind
Tools/Platforms/Databases: Prisma, Git, GitHub, Linux (Fedora), MongoDB, PostgreSQL

EXPERIENCE

Full Stack Web Developer Intern   Mohali, India
Esferasoft Solutions Pvt. Ltd.   *June. 2024 – July 2024*

- Engineered a **device management system** to solve the real-life problem of tracking devices. Link
- Executed the rollout of a **real-time admin console** for managing devices, employees and monitor live users reducing administrative workload by 80%.
- Designed a user dashboard to view available devices in real time, book and return devices, access their borrowing history leading to a 90% improvement in user experience and engagement.

PROJECTS

CPU Scheduling Visualizer | GitHub   C++, DSA, Framer Motion, Next.js

- Developed a visual tool to simulate various CPU scheduling algorithms, including **FCFS**, **Shortest Job First** (SJF) (Preemptive and Non-preemptive), **Priority Scheduling** (Preemptive and Non-preemptive), and **Round Robin**.
- Designed an interactive interface that dynamically displays the Gantt Chart for each algorithm, helping users visualize process execution and CPU time allocation.

GraphRoute Decoder | GitHub   C++, DSA, vis.js, Next.js

- An interactive graph visualization tool that enables users to create, move nodes, and visualize live connections while finding the shortest path between nodes using **Dijkstra's algorithm.**
- Implemented real-time animations where a person icon dynamically moves between nodes, offering an engaging and intuitive experience for exploring graph structures and shortest pathfinding.

Syncscript | GitHub   React, Prisma, PostgreSQL, Socket.IO

- Designed real-time document collaboration, enabling multiple users to edit and view documents simultaneously.
- Implemented role-based access control, allowing document owners to toggle between edit and view modes, ensuring secure and controlled document management.

TicketFusion | GitHub   React, Hono, Primsa, PostgreSQL, JWT, Recoil, Firebase, Tailwind

- Developed event management platform with 5+ functionalities including filter search and sharing event details on WhatsApp, resulting in a 30% increase in user engagement.
- Managed database concurrency and implemented debouncing, improving ticket accuracy by 90% and server response time by 20%.

ACHIEVEMENTS

- Participated in the Smart India Hackathon 2024, contributing to Dashboard for Swachhta and Life.
- Achieved semi-finalist position in TechGig Code Gladiators 2024.
- Obtained the Develop GenAI Apps with Gemini and Streamlit badge from Google Cloud.
- Obtained Enterprise Design Thinking Practitioner badge issued by IBM.
- Solved 750+ problems on LeetCode.
- Acquired the 200 Days Coding badge in 2024, achieving the same top 1% ranking.
- Received the 100 Days Coding badge in 2023, placing in the top 4.2% of all LeetCode users.