

Raj hansh

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SKILLS

Languages: C++, Python, C, Java, SQL, DSA

Tools/Platforms: Maltego, kali Linux, Nmap, oracle, MS SQL Server

Soft Skills: Problem-Solving, Active Listener, Team Work, Adaptability

TRAINING

CSE Pathshala

10 Jun' 25 – 18 Jul'25

C programming language

- Developed strong understanding of core C programming concepts including variables, data types, operators, control flow (if-else, loops), and functions.
- Gained hands-on experience in file handling (text & binary files) for reading/writing data and building real-world mini-projects.
- Built and debugged multiple C programs using GCC and Code Blocks, enhancing debugging and logical problem-solving skills by **25%**.

PROJECTS

[Electric Vehicle Management System](#) | C, Data Structures, File Handling

- Designed and developed a modular EV management system featuring authentication, vehicle tracking, charging control, billing, storage, and queue management.
- Implemented dynamic billing logic and real-time charging session handling to simulate EV station operations.
- Integrated queue-based scheduling for optimized vehicle charging allocation and resource utilization.
- Structured the application using header-based modular architecture to enhance scalability and maintainability.

[Garbage Collection](#) | HTML, Tailwind CSS, Chart.js, PHP

- A web-based tool to visualize memory management and garbage collection algorithms. Built with PHP and Tailwind CSS, it helps students, developers, and educators understand memory allocation.
- Implemented advanced **garbage collection strategies** including Generational GC, Mark-and-Sweep, and Reference Counting, alongside real-time memory usage analytics, performance metrics, and a modern responsive UI with dark/light modes and smooth animations.
- Designed and developed an **interactive memory visualization system** featuring color-coded memory blocks, fragmentation mapping, dynamic root reference tracking, and user-controlled allocation/compaction for deeper understanding of memory behavior.

CERTIFICATE

The Bits and Bytes of Computer Networking by Google | [Coursera](#)

Sep' 24

Hardware and Operating System by IBM | [Coursera](#)

Sep' 24

Peer to Peer Protocols Network Communications | [Coursera](#)

Oct' 24

Foundations and Reconnaissance Techniques | [Coursera](#)

Feb'26

EDUCATION

Lovely Professional University

Bachelor of Technology

Computer Science and Engineering; CGPA: 5.33

Phagwara, Punjab

Nov' 27 – Present

Army Public School Jhansi

Intermediate

PCM; Percentage: 80%

Jhansi, Uttar Pradesh

Mar' 22 – May' 23

Army Public School Jhansi

Matriculation

Percentage: 70%

Jhansi, Uttar Pradesh

Mar' 20 – May' 21