

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