# Sneha Singh

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## ACADEMIC DETAILS

| Year | Degree/Board | Institute | CGPA/Marks(%) |
| --- | --- | --- | --- |
| 2022-2026 | B.Tech in CSE (Ongoing) | Graphic Era University | 7.20 / 10 |
| 2021 | I.C.S.E | Guru Nanak Academy | 77% |
| 2019 | I.C.S.E | Guru Nanak Academy | 60% |

## PROJECTS

- **File System Data Fragmentation Control**
  Web-based simulator to demonstrate and manage file system fragmentation.
  **Stack:** Python, Flask, HTML/CSS, Bootstrap, Chart.js
  **Key Features:**

    ○ Visualizes disk block allocations with color-coded mapping

    ○ Simulates random/manual file placements with fragmentation scoring

    ○ Real-time defragmentation algorithms

    ○ ZIP file uploads and extraction

    ○ Downloadable reports and disk summaries

- **SQL Query to Python Code Compiler**
  Developed a tool to convert SQL queries into optimized Python code using Pandas, SQLite, and SQLAlchemy.
  **Key Features:**

    ○ Real-time query parsing, validation, and syntax error handling

    ○ Interactive web UI with instant code preview and execution

    ○ Supports multiple SQL dialects with equivalent Python code generation

    ○ Designed for learners, developers, and data analysts

## TECHNICAL SKILLS

- **Programming Languages:** C, C++, JavaScript
- **Web Technologies:** HTML, CSS, PHP
- **Database:** Oracle (SQL)
- **Tools:** VS Code,Eclipse,Draw.io,Latex,Canva

## SOFT SKILLS

- Highly confident communicator
- Problem-solving and analytical skills
- Leadership and teamwork
- Adaptability and quick learning
- Decision-making ability
- Positive attitude and self-motivation
- Time  task management

## POSITIONS OF RESPONSIBILITY

- **CyberSecurity Club – Event Coordinator:** Managed events including ethical hacking workshops  paid cybersecurity shows.
- **Class Representative (CR):** Acted as liaison between students and faculty, ensuring class coordination.