

NRIPENDRA SINGH RAWAL

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SUMMARY

A passionate and motivated B.Tech Computer Science student with hands-on experience in full-stack web development and problem-solving . Proficient in HTML , CSS , JavaScript , PHP , React.js , and Data Structures . Eager to apply technical skills to real-world projects and gain practical experience in the software industry.

EDUCATION

Graphic Era Hill University <i>B.tech in Computer Science Engineering ,CGPA : 8.0</i>	Aug 2022-Jul 2026 <i>Dehradun,India</i>
Mallikarjun sr. sec school <i>XII, CBSE Board,Percentage : 95%</i>	Completed in 2021 <i>Pithoragarh, India</i>
Mallikarjun sr. sec school <i>X, CBSE Board,Percentage : 97.8%</i>	Completed in 2019 <i>Pithoragarh, India</i>

COURSEWORK

- Object-Oriented Programming
- Database Management Systems
- Data Structures & Algorithms
- Web Development
- Operating System
- Computer Networks

PROJECTS

- **Handwritten Digit Recognizer** **Oct 2024**
Python,Keras,CNN,OpenCV
 - Built a digit recognition model with **Keras/TensorFlow** and trained it on **MNIST dataset**,achieving approximately **98% accuracy on this dataset**
 - Preprocessed 70000+ MNIST image by normalizing pixel values and reshaping inputs reducing image processing time by 40%
 - Use **Open CV** to convert **28x28 pixel images** into **grey-scale**,ensuring compatibility with MNIST trained data.
- **Cafe Management System** **Feb 2025**
HTML,CSS,JavaScript,React.js,Node.js,MongoDB
 - Developed a full-stack cafe web application using the MERN stack with a user friendly UI and secure backend.
 - Built and integrated **10+ interactive components** in React.js including menu display ,order form,bill summary,and dashboard.
 - Implemented RESTful APIs using Node.js and Express for handling menu data and order processing.
 - Utilized MongoDB for persistent data storage of menu items, customer orders and transaction logs.
- **Virtual Memory Simulator** **May 2025**
Next.js ,TypeScript,Tailwind CSS
 - Developed a visual simulator for virtual memory management and page replacement algorithms like FIFO and LRU.
 - Built an interactive UI with Next.js and Tailwind CSS to animate page loading ,faults and frame status.
 - Designed components to simulate logical memory to physical memory translation

TECHNICAL SKILLS

- **Languages & Technologies:** C , C++ , Java , Python , SQL , HTML , CSS , JavaScript , TypeScript
- **Libraries & Frameworks:** React.js , Node.js , Tkinter , Tailwind CSS , OpenCV
- **Tools& Platforms:** Git,Github , VS Code , IntelliJ IDEA , MongoDB , SQL
- **Operating System:** Windows,Ubuntu(Linux)

CERTIFICATIONS / ACHIEVEMENTS

- **400+ DSA Questions Solved :** completed challenges on platform like LeetCode ,CodeChef and GFG.