Nikhil kumar

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SKILLS

Languages: C++, Python, C, Java
Tools/Platforms: Linux, AWS, Docker, MS SQL Server
Soft Skills: Problem-Solving, Team work, Adaptability, Leadership

PROJECTS

Student Result Management System | (Github) Jul 2025 – Aug 2025

- Created a console-based system to manage and calculate student grades securely.
- Utilized file handling in C++ to store, update, and retrieve student records efficiently.
- Automated grade computation and performance analysis based on marks input.
- Designed menu-driven functionality for easy navigation and usability.
- Improved data processing speed by 35% using efficient file access operations.

Disaster-Relief-Resource-Allocator| (Github) Oct 2024 – Nov 2024

- Successfully developed a Disaster Relief Resource Allocator system using C++ and Data Structures for automated, priority-based disaster resource management. Enhanced problem-solving and system design skills by applying DSA concepts to a real-world scenario.
- Focused on building an automated system to efficiently allocate essential resources during disaster situations.
- Incorporated Data Structures and Algorithms in C++, the system manages disaster relief requests and allocates resources using FIFO, priority-queue (heap), and undo mechanisms.
- Designed core algorithms using Queue (FIFO), Stack (Undo), and Heap (Priority Allocation) for efficient resource distribution.
- Established max-heap/min-heap logic for urgency-based allocation and sorting algorithms for report generation. Ensured optimized performance and correctness of resource allocation through DSA techniques.

TRAINING

DSA | Lovely Professional University | (Certificate) Jun 2025 – Jul 2025
Data Structure and Algorithms using C++

- Implemented key algorithms such as sorting, searching, recursion, dynamic programming, and greedy algorithms using C++.
- Learnt to analyze time and space complexity using Big O notation to write efficient code.
- Built a strong foundation for technical interviews and competitive programming.

CERTIFICATES

- Introduction To Internet Of Things | NPTEL | (Certificate) July 2025
- Software Engineering: Implementation and Testing | Coursera | (Certificate) Mar 2024
- Responsive Web Design | Free Code Camp | (Certificate) Dec 2023

Achievements

Hackathon -HackVerse 2024 | LPU | (Certificate) Mar 2024

- Participated in "HackVerse 2024" Hackathon, collaborating with multidisciplinary teams to build innovative tech solutions under competitive and time-bound constraints.

EDUCATION

Lovely Professional University Kapurthala, Punjab
Bachelor of Technology Aug 2023 – Present
Computer Science and Engineering; CGPA: 6.03

The Tagore Public Sec. School Jhunjhunu, Rajasthan
Intermediate Mar 2022 – May 2023
PCM; Percentage: 77.4%

The South Public School Jhunjhunu, Rajasthan
Matriculation Mar 2020 – May 2021
Percentage: 91%