SUDHANSHU MISHRA

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github.com/sudhanshu-mishra

EDUCATION

KIET Group of Institutions (AKTU) - Ghaziabad   2023 - 2027
Bachelors of Technology - Computer Science
CGPA-7.72/10

Anil Saraswati Vidya Mandir (CBSE) - Ayodhya   May -2021
12th - 83%

DRM Public School (CBSE)- Ayodhya   May -2019
10th-89.6%

PROJECTS

URL Shortener   Nov 2025- Dec 2025
Tools & Technologies: Node.js, Express.js, MongoDB, HTML, CSS, JavaScript, GitHub
- Engineered a full-stack URL shortening service using Node.js, Express.js, and MongoDB with efficient redirection handling.
- Designed RESTful APIs and MongoDB schemas (Mongoose) to ensure fast lookups, data integrity, and scalability.
- Implemented MVC architecture, input validation, and robust error handling to improve system reliability and maintainability.
- Used Git and GitHub for version control, debugging, and production-style backend development workflows.

Algorithm Visualizer   Jan 2025 - March 2025
Tools & Technologies: C++, STL, OOP, Graph Algorithms, VS Code, Git
- Built an interactive algorithm visualization tool in C++ for sorting and graph algorithms including BFS, DFS, and Dijkstra.
- Applied data structures, STL, and algorithm analysis to compare time and space complexity across implementations.
- Designed a modular and extensible architecture using object-oriented programming principles.
- Enabled performance experimentation to analyze algorithm efficiency, scalability, and trade-offs.

Desktop Music Player   May2024 - June 2024
Tools & Technologies: C, C++, OOP, Multithreading, File Handling, VS Code
- Developed a desktop music player in C/C++ supporting play, pause, resume, and stop functionalities.
- Implemented multithreading and object-oriented design to ensure smooth and responsive audio playback.
- Designed modular components for playback control and user interaction.
- Tested across Windows and Linux environments to ensure reliability, performance, and cross-platform compatibility.

Technical Skills

- **Programming Languages:** C/C++, Java
- **Computer Science Fundamentals:** Data Structures & Algorithms, Object-Oriented Programming (OOP), Operating Systems, Database Management Systems (DBMS), Computer Networks, Time & Space Complexity Analysis
- **Web & Software Development:** HTML, CSS, JavaScript, Node.js, Express.js, RESTful API Development Databases: MongoDB, SQL (Basic)
- **Software Engineering & Tools:** Git, GitHub, Postman, VS Code, Debugging, Unit Testing
- **Problem Solving & Practices:** Requirement Analysis, Feature Design, Agile Development, Code Reviews, Team Collaboration

ACHIEVEMENTS & CERTIFICATIONS

- Solved **200+ Data Structures & Algorithms problems** on **LeetCode,** strengthening problem-solving skills and algorithmic thinking **(LeetCode Profile: leetcode.com/u/sudmishra123)**

- Secured **2nd Position** in **Coding Contest** organized by **CodeHurdle** under **KIET Koders Korner Club.**
- Cleared 1st Round of Smart India Hackathon (SIH), demonstrating strong problem analysis and solution design skills
- Cleared Round 1 of Innotech Hackathon, organized by KIET, showcasing teamwork, innovation, and rapid prototyping abilities
- Completed 3-day hands-on workshop program in **cloud security, threat protection, and compliance** organized by **Microsoft** using **Microsoft Azure** platform **(Certificate Link)**