

GULSHAN KUMAR

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EDUCATION

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|---|-----------------------------------|
| • National Institute of Technology (NIT) Agartala
<i>B.Tech in Computational Mathematics</i> | <i>CGPA: 8.74</i>
2024 – 2028 |
| • Class XII (CBSE)
<i>Higher Secondary Education</i> | <i>Percentage: 87.8%</i>
2023 |
| • Class X (CBSE)
<i>Secondary Education</i> | <i>Percentage: 90.14%</i>
2021 |

PROJECTS

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|--|---|
| • Amazon Home Page Clone
<i>Responsive E-Commerce Front End</i> | <i>Nov 2025</i>
Source Code Link |
| – Frontend Engineering: Developed a high-fidelity replica of the Amazon homepage using Semantic HTML5 and CSS3 , replicating the complex multi-column layout and visual hierarchy. | |
| – Layout Design: Implemented advanced CSS Flexbox and Box Model techniques to structure the navigation bar, hero section, and dynamic product grids without relying on external frameworks. | |
| – Cross-Platform Optimization: Engineered a fully responsive interface that adapts to varying screen resolutions, ensuring consistent content alignment and readability. | |
| – Tech Stack: HTML5, CSS3, Git, Javascript, Version Control. | |
| • DFS Path Finder
<i>Interactive Graph Traversal Engine</i> | <i>Dec 2025</i>
Live Demo Link |
| – Algorithm Implementation: Developed a traversal engine utilizing Depth-First Search (DFS) to compute path connectivity in complex unweighted graph topologies . | |
| – Data Structure Logic: Implemented an iterative Stack (LIFO) mechanism to simulate recursive backtracking, ensuring robust path exploration with Time Complexity $O(V + E)$. | |
| – Dynamic Visualization: Engineered a responsive grid system that renders real-time backtracking and node state changes using asynchronous DOM manipulation. | |
| – Tech Stack: JavaScript (ES6+), HTML5, CSS3, Data Structures (Stacks, Graphs). | |
| • Personal Portfolio Website
<i>Interactive Developer Showcase</i> | <i>Oct 2025</i>
Live Demo Link |
| – User Experience (UX): Designed a scalable , SEO-friendly portfolio featuring asynchronous JavaScript for seamless, non-blocking form validation. | |
| – Web Performance: Audited and optimized code to secure a 95+ Performance and Accessibility score on Google Lighthouse . | |
| – Tech Stack: HTML5, CSS3, JavaScript, Responsive Web Design. | |

ACHIEVEMENTS

- **Algorithmic Excellence:** Rated **2-Star Coder** at CodeChef ([gulshan3728k](#)) and demonstrating consistent problem-solving under time constraints.
- **Global Problem Solving:** Solved **200+** **Algorithmic Problems** across LeetCode and Codechef, focusing on Dynamic Programming and Graph Theory. [\[LeetCode Profile\]](#)
- **Hackathon Innovation:** Qualified for the Internal Round of **Smart India Hackathon (SIH) 2025**, selected for proposing a novel technical solution to a real-world problem statement.

TECHNICAL SKILLS

- **Languages:** C, C++, JavaScript, HTML5, CSS3
- **Core Competencies:** Data Structures Algorithms (DSA), Object-Oriented Programming (OOPS), System Design Basics, Time Space Complexity Analysis
- **Developer Tools:** Git, GitHub, VS Code, Chrome DevTools
- **Soft Skills:** Agile Methodology, Technical Documentation, Collaborative Problem Solving