Rishika Aggarwal

2021 - 2025

CGPA: 8.6/10

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EDUCATION

Pranveer Singh Institute of Technology

B. Tech in Computer Science and Engineering

Chhava Public School

2020 - 2021 Intermediate Percentage: 89%

TECHNICAL SKILLS

Programming Languages: C++, Javascript

Libraries and Tools: React JS, Vs Code, Postman, OpenCV, TensorFlow, GitHub, Vercel, Visual Studio

Frontend: HTML,CSS,JavaScript, React

Backend: Node.js, Express.js, REST APIs, Real-Time Communication, WebSockets, Authentication

Database: Relational Databases (MySQL), Non-Relational Databases (MongoDB)

ML Architectures: CNN

RELEVANT COURSEWORK

Data Structures and Algorithms (DSA), Object-Oriented Programming (OOP), DatabaseManagement Systems (DBMS)

PROJECTS

Real Time Chat Application GitHub

- Developed a real-time chat application using Socket.IO and React.js, reducing response time by 50%.
- Integrated MongoDB to store and manage chat data, improving message persistence, with 99% uptime for chat history retrieval.
- Implemented typing indicators and user-specific message updates, improving the user experience and engagement by **25**% during active conversations.

Role-Based Access Control (RBAC) User Interface Try It!

- Engineered a dynamic user interface in React.js, leveraging Redux for state management, effectively handling permissions for 1,000+ active users with a 99% accuracy in role-based operations.
- Integrated RESTful API architecture to enable seamless CRUD operations with 98% reliability for user, role, and permission management.

Brightness Control With Hand Detection GitHub

- Developed a Python-based application to control screen brightness, achieving a 25% improvement in user interaction speed.
- Enhanced performance by reducing the time for brightness adjustment by **30**%, ensuring real-time responsiveness.
- Achieved a 35% reduction in error occurrences by implementing robust error handling mechanisms across various hardware configurations.
- Streamlined the code, reducing application load time by 20% through efficient algorithms and resource management, enhancing real-time functionality.

ACHIEVEMENTS

- LeetCode: Accomplished 200+ algorithmic challenges on LeetCode, specializing in Dynamic Programming, String Manipulation, Array Manipulation, Stack, Heap, Tree Structures, Graphs, and many more.
- GeeksforGeeks: Completed 100+ problems on GeeksforGeeks, worked on my data structures and algorithms skills, leading to more efficient coding practices.
- HackerRank: Achieved 5 stars rating in methodologies on HackerRank, demonstrating exceptional proficiency in tackling different problem sets.
- AWS APAC Solutions Architecture virtual experience program on Forage: Designed a simple and scalable hosting architecture based on Elastic Beanstalk for a client experiencing significant growth and slow response times.