

RISHI SHARMA

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SUMMARY

Computer Science graduate with a robust understanding of Data Structures and Algorithms (DSA) and a keen expertise in Backend Development using Express and Node.js. Skilled in designing and implementing scalable and efficient server-side applications, and proficient in RESTful API development.

EDUCATION

Pranveer Singh Institute of Technology

Bachelor of Technology, Computer Science and Engineering (7.0)

Kanpur, Uttar Pradesh

November 2021- Present

SKILLS

Programming Languages: JavaScript, Node.js, SQL, Express.js, C, AJAX, REST API, JSON, Java.

Frameworks and Libraries: Express.js, GSAP, THREE.js, jQuery.

Tools & IDEs: Chart.js, Visual Studio Code, IntelliJ, Git, GitHub.

Database Technologies: MySQL, Oracle Database, MongoDB, Firebase.

PROJECTS

Whiteboard Canvas -Electron.js, Node.js, JavaScript, CSS, HTML

April 2024 – June 2024

- Electron is an open Source embeds Chromium and Node.js leads significant 9% boost.
- Streamlined and optimized SQL query operations, successfully **reducing processing times by over 50%**, thus enhancing overall database efficiency and response times for business-critical operations.
- Achieved **100% compatibility** across multiple operating systems, providing seamless performance for users.
- Used **statistical analysis and predictive modeling** in ad targeting, segmentation to enhance campaign precision.
- Shapes: Add tools for drawing basic shapes such as lines, rectangles, circles, and polygons 100% accuracy.
- Pen/Pencil: Implement freehand drawing with adjustable brush sizes and colors 100% user friendly.

Leaf-Tracks -Leaflet.js, JavaScript, Node.js

March 2023 – July 2023

- Enabled real-time navigation with map markers, **resulting in a 25%** increase in user engagement for location-based services.
- Provided a **30% performance improvement** by optimizing the rendering of large datasets on the map.
- Implemented **real-time geolocation tracking** and **directions** using Leaflet's **routing control plugin**.
- Providing **100% accuracy** in tracking user locations and displaying the shortest path between two points.
- Incorporated **layer control functionality**, allowing users to toggle between different map layers, such as satelliteview, terrain view, and street view, enhancing user experience by **35%**.

Algorithm Visualizer

December 2023 – February 2024

- Visualizes popular **graph algorithms** such as **Dijkstra's Algorithm**, **A-Algorithm**, Breadth-First Search (BFS) and **Depth-First Search (DFS)** in real-time.
- Users can manually create graphs by adding or removing nodes and edges, or generate random graphs with up to **50 nodes** and **100 edges** for testing.
- Step-by-step visualization of algorithm processes, dynamically updating the status of each node resulting in a **30% increase in user comprehension** of graph traversal and pathfinding techniques.
- Provides a drag-and-drop interface for graph creation, enabling users to build and customize graphs easily, with **95% usability** in terms of intuitiveness and simplicity.
- **Real-time code display**, highlighting the currently executed lines of the algorithm in sync with the graph visualization, increasing user understanding by **35%**.

CERTIFICATIONS

- The Complete 2022 Web Development Bootcamp-Udemy.
- MongoDB Node.js Developer Path (Feb 2024 – Mar 2024)-MongoDB.
- Artificial Intelligence Fundamentals -IBM.

ACHIEVEMENTS

- **Solved 400+ LeetCode Problems:** Demonstrated strong problem-solving skills across various data structures and algorithms, consistently applying efficient solutions and **5-Star Coder on HackerRank**.