Thirumal Reddy

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SKILLS

- **Languages**: Java,DSA,Full StackWeb Development(BackEnd-Nodejs,PHP)
- **Frameworks**: HTML and CSS, NodeJS
- **Tools/Platforms**: MySQL, MongoDB
- **Soft Skills**: HardWork,Positive-Minded and Passionate about Learning New Things

TRAINING

- **GeeksforGeeks -** June 2024
  About: GeeksforGeeks is a well-known platform that provides coding resources, interview preparation materials, and tutorials on computer science topics. It is widely used by students and professionals to enhance their coding skills and prepare for technical interviews.

  Key Learnings:
  ◦ Improved coding efficiency and problem-solving ability.
  ◦ Gained deep insights into Java-based DSA implementation.
  ◦ Learned how to optimize algorithms for better performance.
  ◦ Understood best coding practices and debugging techniques.

PROJECTS

Sudoku Solver - October 2024

Developed a **Sudoku-solving algorithm** in Java utilizing **backtracking** and optimized constraint checking to efficiently solve 9×9 Sudoku puzzles.

- Implemented **backtracking algorithm** to explore possible number placements, reverting when encountering invalid configurations.
- Designed an efficient **grid traversal** system to locate empty cells and systematically attempt valid numbers.
- Developed separate methods to **validate constraints** for rows, columns, and 3×3 sub-grids to ensure correctness.
- Used a **recursive approach** to solve the puzzle iteratively until a valid solution is found.
- Provided **user-friendly output**, printing the completed Sudoku board or notifying if the puzzle is unsolvable.

Weather App - March 2024

Developed a **weather application** using **Node.js** to fetch and display real-time weather data from an external API. The application efficiently handles API requests, processes data, and presents user-friendly weather updates.

- Developed a server to handle API requests, process responses, and serve data efficiently.
- Designed an interactive UI to display weather details dynamically.
- Implemented real-time weather data using APIs like OpenWeatherMap or WeatherAPI.
- Implemented input fields for city search and location-based weather retrieval.

CERTIFICATES

- Complete Interview Preparation - Self-Paced (DSA using Java) by GFG. — September 2024
- Certification in building Web Applications using PHP — November 2024
- Certification in Master the Quantitative Aptitude — March 2025

ACHIEVEMENTS

- Secured second place in a school-level spelling bee competition. — December 2015
- Won a medal in district-level volleyball championship, demonstrating teamwork and athletic excellence. — October 2019

EDUCATION

- **Lovely Professional University** — Punjab, India
  *Bachelor of Technology - Computer Science and Engineering; **CGPA: 6.82*** — *Since August 2022*

- **Sri Chaitanya Educational Institutions** — Hyderabad, Telangana
  *Intermediate; **Percentage: 97%*** — *April 2020 - March 2022*

- **Montessori Residential School** — Alampur, Gadwal
  *Matriculation; **Percentage: 100%*** — *April 2019 - March 2020*