

Challa Harshitha

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Leetcode: <https://leetcode.com/u/Challa-Harshitha/>

Education

Indian Institute of Technology Bhubaneswar

B.Tech Computer Science and Engineering

GPA: 8.83

Aug 2023 - present

Narayana Junior College

Board of Intermediate Education, AP

Percentage: 98.2%

2021 - 2023

Narayana E.M High School

Board of Secondary Education, AP

Percentage: 99.16%

2020 - 2021

Projects

Portfolio

HTML, CSS, basic JavaScript

- Demonstrates my ability to create visually appealing and user-friendly web pages.
- The website showcases my projects and provides a platform for potential employers to view my work.

Room Allotment System

C++

- Developed a console-based room booking system in C++ that manages room registration, scheduling, and conflict detection.
- Implemented core functionalities such as room filtering by capacity and purpose, time-based booking validation, and options to cancel or reschedule.
- Enabled efficient search by host name or time slot using **STL** containers (**unordered map, vector**) and custom time parsing logic.

Course Projects

Cross Word Puzzle Solver

C++

- Developed a crossword puzzle solver using constraint satisfaction techniques in C++.
- The program models each word slot as a variable and applies node consistency and the **AC-3 (Arc Consistency)** algorithm to prune the search space efficiently.
- Utilized backtracking with forward checking for optimal word assignment, based on intersection constraints between horizontal and vertical word placements.

Key Skills

- **Programming Languages:** C, C++, HTML, CSS
- **Tools:** AutoCAD, LTspice, Git, Github
- **Framework/Libraries:** C++ STL
- **Soft Skills:** Problem Solving, Self-learning, Teamwork, Adaptability

Position of Responsibility

Core Team Member

(August 2024 - May 2025)

•Souls for Solace (S4S), IIT Bhubaneswar

- Worked as a core team member, actively contributing to creating a positive and supportive environment.
- Through this role, I collaborated with team members to promote mental wellness, organized events, and provided support to individuals in need.

Associate

(August 2023 - May 2024)

•E-Summit (E-Cell), IIT Bhubaneswar

- Served as an Associate, leveraging my management skills to drive the successful execution of the festival.
- In this capacity, I worked closely with the organizing team to coordinate logistics, manage timelines, and ensure seamless event operations.

Associate

(August 2023 - May 2024)

•Souls for Solace (S4S), IIT Bhubaneswar

- Explored opportunities to promote mental wellness and support community members through active participation in events and initiatives.
- Worked closely with the team to develop strategies and programs that encouraged open conversations and emotional support.

Extra-Curricular Activities

- **NSS:** As an NSS volunteer, I actively participated in community service initiatives, developing a deeper understanding of social issues and fostering a sense of responsibility towards society.
- **Hobbies:** Playing Badminton and Singing.