Kaustubh Agrawal
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PROFESSIONAL SUMMARY

Enthusiastic and detail-oriented software engineering student with a strong foundation in programming and full-stack development. Proven track record of developing innovative solutions and leading projects from concept to completion. Adept at collaborating with cross-functional teams and committed to delivering high-quality software.

SKILLS

Programming Languages: C, C++, JavaScript, HTML/CSS, JSON, AJAX
Frameworks and Libraries: ReactJS, JQuery, ExpressJS, AngularJS, Bootstrap, Node.js
Databases: MySQL, MongoDB
Software Development: Full Stack Development, MERN Stack, Data Structures and Algorithms
Hardware: Arduino
Tools: Git

WORK EXPERIENCE

Technical (Web Development) Intern at Suvidha Foundation. July 2024-Present

EDUCATION

Thapar Institute of Engineering and Technology, Patiala, Punjab 2021-Present
Bachelor of Engineering in Electronics and Communication CGPA: 8.16

PROJECTS

Karalambana *Project Link*

A web-based program that facilitates the donation of unused, non-expired medications by individuals to those in need, either through NGOs or by direct means.
Technologies: *HTML, CSS, Bootstrap, AngularJS, JavaScript, JSON, MySQL, Node.js, ExpressJS and AJAX.*

iNotebook App

Built a MERN stack application for storing, modifying and deleting notes. Implemented these functionality through CRUD operations.
Technologies: *Techstack, ReactJs, HTML, CSS, JavaScript, ExpressJs, Node.js, MongoDB, Thunderclient.*

Pathfinding and Visualizer

Developed a Vanilla Js software application for visualizing pathfinding and maze generation using efficient algorithms. Implemented different algorithms and co developed unique path finding algorithms based on A* search and Dijkstra's Algorithm.
Technologies: *HTML, CSS, JS, ReactJs.*

Line Follower

An Arduino-based intelligent line follower robot which tracks the black line on a surface. After a dry run, it can find the shortest path between the start and destination.
Technologies: *Arduino Uno, LM298 Motor Driver, IR Sensors.*

ADDITIONAL PROJECT

Project Link

- **Tic-Tac-Toe, Snake in the Maze, Calculator:** Developed using HTML, CSS, JavaScript.
- **Weather App:** Created using Node.js, integrated with a weather API.
- **Denoising Audio:** Utilized data compression and implemented using MATLAB.

TRAINING AND CERTIFICATION

- Completed certified programming training in C/C++, DSA, Full Stack, and MERN Stack from Banglore Computer Education under the guidance of the author of "REAL JAVA", Mr. Rajesh Bansal.

VOLUNTEER WORK

Kalam and Pratigya Patiala, Punjab
Volunteered as a tutor for poor kids.

RELEVANT COURSEWORK

- Data Structures and Algorithms
- Object-Oriented Programming
- Database Management Systems
- Operating Systems
- Computer Networks
- Web Development
- Software Engineering

ACHIEVEMENTS

- Achieved a CGPA of 8.16 at Thapar Institute of Engineering and Technology.
- Scored 95.6% in Higher Secondary Schooling (Class XII).
- Secured 91% in Secondary Schooling (Class X).
- Secured various prizes in sports, extempore speech, essay writing and mime at school level.

PROFILE LINKS

* LeetCode * GeeksforGeeks * Portfolio *