DEVESH BHARDWAJ

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GitHub

EXPERIENCE

Algorithm Developer Intern

R2G Logistics

November 2024 – December 2024 Gurugram (Hybrid)

- Implemented route optimization algorithms (A*, Christofides') to compute shortest paths across 15–20 delivery locations, improving efficiency by 30%.
- Achieved a 70% reduction in new driver training costs using Java, data structures, and graph-based optimization techniques..

PROJECTS

Pravah

Full Stack Development Project GitHub

Ongoing

- Designing and implementing a pipeline to enhance audio clarity by reducing noise, improving signal fidelity, and optimizing playback quality. Leveraged signal-processing techniques and automated evaluation to deliver consistently clearer, production-ready audio output.

WhatApp Chat Bot

Hobby Project GitHub

November 2024

- Created a WhatsApp auto-reply chatbot with a login dashboard and Analytics with customised replies. Used Node.js Backend and whatsapp-web.js for auto reply and QR based login.

LIBR

A Censor Resilient Yet Moderated Platform GitHub

March 2025

- Developed LIBR: a decentralized forum framework using DHTs and blockchain, with fault tolerance via Byzantine consensus.
- Engineered LIBR's modular architecture (Go modules for Clients, Moderators, DB Nodes) and partial message immutability for reconfigurability.

Algorithm Development

InterIIT Tech Meet 13.0

November 2024 – December 2024

- Explored various models of 3D-bin packing, and solved the problem to stand 10th in 23 competing teams at the Inter IIT Tech Meet 13.0.

EDUCATION

B.Tech in Computer Science and Engineering
IIT Jodhpur **CGPA: 9.41 (till Sem-4)**
July 2023 – Present

Class XII
Pragyan Public School, Jewar **93.0%**
June 2023

Class X
Pragyan Public School, Jewar **97.2%**
June 2021

SKILLS

Node | React | Socket.io | WebRTC | JavaScript | Java | System Design | Git | Low Level Systems | C++ | C | Python | numpy | Pandas | Scikit Learn | ML | Team-work

ACHIEVEMENTS

- AIR 1616 (JEE Advanced) Best in the Batch
- AIR 4208 (JEE Mains)
- 3* on CodeChef (1636) Profile

RESEARCH WORK

Clustering Streaming Data

- Worked on C++/CUDA incremental BFS algorithm for streaming graphs using cuSTINGER.
- Processed 100K updates/sec with microsecond-level traversal on large-scale graphs (up to 1B nodes, 500M edges), achieving 3x speedup and 70% recomputation reduction.

COURSEWORK

- Mathematics 1 (Real Analysis) A*
- Maths for Computing A
- Data Structures and Algorithms A
- Operating Systems A
- Pattern Recognition and ML A
- Database Systems A
- Design and Analysis of Algorithms A