

AYUSH JHA

Software Development Intern

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DATA STRUCTURES & ALGORITHMS | MERN STACK | FULL STACK DEVELOPMENT | C++ (STL & BOOST) | NEXT.JS |
PYTHON (BEAUTIFULSOUP, PYGAME, NUMPY, PANDAS) | RESTFUL API | JAVASCRIPT | NODE.JS

PROJECTS

ELEVATE | [REPO LINK](#)

DELHI

Intelligent Elevator Optimization Platform

AUG 2023 – JAN 2024

- **Problem Statement** - Traditional elevator systems lacked an efficient algorithm for minimizing wait times and **optimizing travel paths**, leading to energy consumption and travel time
- **Engineered** an algorithm in C++ using STL and BOOST, simulating a **40%** decrease in wait times and a 25% increase in system reliability
- **Developed** path Algorithm, leveraging DSA principles, predicting a 30% reduction in travel time & enhanced operational efficiency
- Utilized **mathematical analysis** to estimate, on implementation of the algorithm through **microcontrollers** a 20% increase in overall **energy efficiency** and system performance

ANCHOR | [REPO LINK](#) | [LIVE LINK](#)

DELHI

Project Suggestion Website

JAN 2024 – MARCH 2024

- **Problem Statement** - Manual reporting and solving of daily life problems is inefficient, gap between individuals needing solutions and developers
- Developed user end and **role-based access** control, Created **RESTful API** endpoints for seamless **fullstack** functionality
- Implemented a dynamic interface using **React.js**, allowing **real-time updates** and interactions between users, reducing the time between problem reporting and solution delivery by **50%**.
- Skills: RESTful API, User Authentication, State Management, MongoDB, Express.js, React.js, Node.js, Axios, Mongoose, JWT, Git

SECOND-REV | [REPO LINK](#) | [LIVE LINK](#)

DELHI

Supercar market website based on Next.js

MARCH 2024 – MAY 2024

- **Problem Statement** - Finding refurbished supercars at genuine prices and with legalized import documents from trusted buyers.
- Designed **service website** that allows sellers to **create** detailed profiles of their cars, customers **buy** their chosen car after going through detailed illustration.
- Output - The website provides a user-friendly interface for customers to **browse car profiles** and **make bookings**, while owners can manage their bookings efficiently.
- Skills: Next.js, React, Node.js, Redux, MongoDB, User Authentication, API Development, Libraries - Mongoose, Stripe, Tailwind CSS

DATA-SCOUT | [REPO LINK](#)

DELHI

Automated Web Source Database Generator

DEC 2023 – FEB 2024

- **Problem Statement** - Manual Search and collection of data from several websites makes analysis time consuming and inaccurate
- Developed a **web scraping program** that collects data from top websites based on **user defined search query**. Users specify the **parameters** they want to extract from the listings, ensuring the tool meets diverse needs.
- **Output** - The extracted data is served in a structured **Excel sheet**, making it easy to analyze and compare different listings.
- Skills: Advance Python, Data Extraction, User Input handling, Excel, Data Cleaning, Libraries - BeautifulSoup, Pandas, GoogleSearch-Python, Requests.

EDUCATION

B. Tech, Delhi Technological University

2022-2026

[Microprocessor & Interfacing, Computational Optimization, Digital Electronics, Communication Systems]

ADDITIONAL INFORMATION

- Programming **Mentor**, IEEE – Mentored **200+** students in Programming (C++, Python, DSA) Sep - 2023
- **Winner** of national level street dance battle 'NachYudh' at IIT Bombay Dec – 2023
- **Team Leader** at VIBE, Dance Crew of Delhi Technological University Aug - 2023
- **Indian Vocalist** at Madhurima, Musical Club of Delhi Technological University Feb – 2023
- **Led** football team to win **2nd** position in state level tournament by Delhi Soccer Association Feb - 2022