DHRUV MAHALWAR

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EDUCATION

Netaji Subhas University of Technology, New Delhi	Expected 2025
Bachelor of Technology - Information Technology	8.22 CGPA(Till 6th Sem)
Army Public School Dhaula Kuan, New Delhi	2020 - 2021
CBSE Class XII Examination	94.2%
Army Public School Dhaula Kuan, New Delhi	2018 - 2019
CBSE Class X Examination	86.4%

SKILLS

Technical Skills	C, C++(Proficient), Python, Javascript, MySQL, HTML5, CSS3, Node.js, React, MongoDB
Core Subject	Database Management System, Computer Networks, Operating System, OOPs, DSA
Version Control	Git, Github

PROJECTS

CargoHive [Github] [Link] [Demo] [Documentation]

- **Blockchain**-based logistics tracking system. **It aims to decentralize the entire supply chain of a company** by storing its product information in a distributed fashion over the blockchain, **making the supply chain more efficient, transparent, secure, and reliable.**
- Developed using **Solidity** and **Remix - Ethereum IDE** deployed on **Ethereum Sepolia test network** .
- I have been tasked with developing the **Blockchain component** using **Solidity** and integrating **live location** tracking using the **OpenStreetMap API** for managing the location and delivery history of the supply chain.

Intrusion Detection In Internet Of Vehicle [Github] [Paper] [Documentation]

- Implemented an innovative intrusion detection model based on an **IEEE research paper(Dec 2022)**, achieving a **99.7% accuracy**, resulting in superior performance in identifying **Distributed Denial Of Service(BOTNET), Port Scan, Brute Force attacks, and Web attacks**.
- Used an ensemble of **Three Advanced Decision Tree Machine Learning Models**, integrating specialized leader classes for **highly accurate and targeted intrusion detection in vehicular TCP/IP Networks**.
- Implemented a **dynamic, real-time simulation** of the intrusion detection model using the **PyGame** library in Python, facilitating immersive **visualization**, and comprehensive **performance evaluation** of the system.

CampGrounds [Github] [Link]

- Created a **Full Stack Web Platform** where people can **add camping areas and review** about a campground.
- Built a **dynamic** and engaging application using **Node.js** for the backend, **EJS** for templating, **MongoDB** for database management, and **HTML5** and **CSS3** for a visually appealing and responsive frontend.
- Integrated **MapBox for Geolocation and Mapping services. Optimized images** with **Cloudinary**. Added **user authentication** and **authorization** for **secure access** and **data protection** for registered users.

ACHIEVEMENTS, CERTIFICATION AND EXPERIENCES

- **4.8 Stars** rated **Teaching Assistant Intern** at Coding Ninja
- Finalist of **BFF Hackathon(DTU)**, grabbing place in top 10 out 400+ teams.
- Attained a global rank of 18 in the Graph Contest conducted by **Algo University**.
- **Certified Ethical Hacker** with **Silver Elite Certificate** from NPTEL.
- Top 2.88% at **LeetCode(max 1994)**.
- Secured a **Rank of 644 out of 25000+** participants in LeetCode Weekly contest 399.