

# DHRUV ANAND SINGH

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## Education

<b>Indian Institute of Information Technology, Design and Manufacturing, Jabalpur</b> <ul style="list-style-type: none"><li>Bachelor of Technology in Computer Science &amp; Engineering Branch</li></ul>	<b>2022 - 2026</b>
<b>Tomar Children School, India</b> <ul style="list-style-type: none"><li>CBSE (Class XII)</li></ul>	<b>2020 - 2021</b>
<b>St. Thomas School, India</b> <ul style="list-style-type: none"><li>CBSE (Class X)</li></ul>	<b>2018 - 2019</b>

## Skills

**Languages:** C++ | Typescript | Java | Python | C | Javascript

**Technology/Frameworks:** ReactJs, NodeJs, Express, NextJs

**Database:** MongoDB, MySQL

**Tools:** Vs Code, Heroku, Vercel, GIT, Github, Postman, EclipseIDE, Jupyter

## Projects

<b>Care Connect: For Orphanage</b>	<b>Oct'23</b>
<p>"Care Connect" is our Database Management System (DBMS) project with a focus on providing a comprehensive solution for orphanages. The project aims to streamline and enhance the management of crucial information related to the residents, staff, and operations of orphanages. It encompasses features such as database design, information storage, retrieval, and management to ensure efficient and organized functioning of the orphanage. "Care Connect" seeks to leverage database technology to create a secure and user-friendly platform for improved administration and care within orphanage facilities.</p> <ul style="list-style-type: none"><li>We incorporated Compelling Storytelling Session, where one can share personal stories of orphans, caregivers, and those involved in their lives.</li><li>Provided information about the challenges faced by orphans and the solutions being implemented as Educational Resources</li></ul>	
<b>Arduino-based Laser Security System</b>	<b>Nov'23</b>
<p>Designed and implemented a robust Laser Security System using Arduino microcontrollers and sensors. The system utilizes laser beams to create a secure perimeter, and any interruption in the laser path triggers an alarm. Developed the firmware and hardware components, including with sensors and actuators.</p> <ul style="list-style-type: none"><li>Designed and assembled the physical components, considering both functionality and aesthetics.</li><li>Demonstrated project planning, execution and completion within defined timelines.</li><li>To overcome Limited Range problem, we used mirrors to pass the laser beam from one to another, covering the entire area in a square boundary around the house.</li><li>To overcome Security Bypass problem, we used multiple laser beams at different heights and angles to make it harder for intruders to bypass.</li></ul>	

## Positions of Responsibility

- The Programming Club** | Video Editor and Graphic Designer
- Jagrati** | Volunteer

## Certificate

<b>The Joy of Computing using Python</b> <ul style="list-style-type: none"><li>Course offered by Swayam or NPTEL</li></ul>	<b>July'23 – Oct'23</b>
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