Atharv Trivedi

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EDUCATION

- **Dhirubhai Ambani University (Formerly DA-IICT)** — May 2028
  Bachelor of Technology in Information and Communication Technology — *Gandhinagar, India*
    - **CPI: 8.64/10.00**
    - **Relevant Courses:** Operating Systems, Data Structures, Design and Analysis Of Algorithms, Object Oriented Programming, Database Management Systems

EXPERIENCE

- **Paryavaran Mitra** — Jan 2026 – Present
  Tech Intern — *Remote*
    - Collaborated in a five-member team to design and develop the official NGO website using the MERN stack.
    - Developed a secure administrative panel allowing non-technical staff to manage news updates, blogs, and media galleries.
    - Engineered a mobile-optimized frontend with dedicated pages for organizational projects, activities, and contact interfaces.

  TechStack: MongoDB, Express.js, React, Node.js, Git

- **Paryavaran Mitra** — Dec 2025 – Jan 2026
  Rural Intern
    - Community Outreach: Delivered environmental workshops to schools and researched comparative waste management policies.
    - Media Advocacy: Produced educational podcasts on waste management laws and sustainable practices for Radio-LJ.
    - Zero-Waste Planning: Developed a strategic campus audit and report to implement zero-waste protocols.

PROJECTS

- **SteadySpoon – Assistive Tremor-Stabilizing Spoon** — Nov 2025
  IoT Device using Arduino and PID Control
    - Developed a low-cost assistive device using an MPU6050 gyroscope and Arduino-based PID control to neutralize hand tremors in real-time.
    - Provides active stabilization to help Parkinson's patients eat independently by mitigating tremors through corrective servo movements.

- **PlaceME – Recruitment and Placement Management System** — 2025
  Full-Stack Application
    - Developed a system that streamlines recruitment through automated student registration and real-time application tracking.
    - Built a centralized administrative dashboard for efficient job posting and data management, reducing manual overhead.

- **Heaven – Gesture-Controlled Security and Automation System** — Dec 2024
  IoT & Mobile Monitoring
    - Reached the semi-finals of the IEEE MYOSA Contest 2024; utilizes ESP32 and I2C sensors for hands-free appliance control.
    - Features real-time mobile monitoring and accelerometer-based intrusion detection with automated locking mechanisms.

- **Tetris – Object-Oriented Arcade Project** — Feb 2025
  C++ Programming
    - Developed a feature-rich Tetris game in C++ using Object-Oriented Programming (OOP) to manage complex game states.
    - Utilized classes to encapsulate game logic, grid manipulation, and collision detection for modular real-time movement.

TECHNICAL SKILLS

- **Area(s) of Interest:** DSA, Database Management System, Operating Systems, Web Development
- **Programming Languages:** C, C++, SQL, JavaScript (React, Node.js)
- **Tools and Technologies:** Visual Studio, PostgresSQL, MATLAB, Git, MERN Stack
- **Technical Courses:** Object-Oriented Programming, Design and Analysis of Algorithm, DBMS, Operating Systems