Piyush Palariya

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EDUCATION

Sardar Vallabhbhai National Institute of Technology — Surat, India
Bachelor of Technology in Computer Science and Engineering — 2023 – 2027

Christ Church Convent School — Gadarwara, India
Class 12th (Higher Secondary), MPBSE; Percentage: 89.2 — 2022 – 2023

EXPERIENCE

Open Source Contributor – Google Winter of Code (GWOC)
Software Engineer — *LIVE*

- **Role**: Developed RESTful API and optimized backend features by using Next.js, Node.js, PostgreSQL.
- **Project**: Developed a home service website using Next.js

PROJECTS

Burger Web-Application (Node.js, MongoDB)
Software — *LIVE*

- **Project Description**: Developed a platform based on the MVC(Model-View-Controller) framework, allowing users to customize the burger ingredients with Admin View to accept users request.
- **Technologies**: Node.js, MongoDB ATLAS(cloud storage), Express, Passport.js, JavaScript, HTML, CSS.
- **Role and Responsibilities**:
    * Implemented CRUD operations and Designed the backend structure by using Node.js, Express, Passport.js for user Authentication.
    * Integrated MongoDB database for users and burger management.
- **GitHub Repository**: Repository

AI Object Classification (Arduino,OpenCV)
AI Model and Hardware

- **Project Description**: Developed an AI-assisted color-based object classification system using real-time image processing and hardware integration with Arduino.
- **Technologies**: Python, OpenCV, Arduino, Serial Communication, UltraSonic Sensor.
- **Role and Responsibilities**:
    * Implemented real-time image capture and dominant color detection using HSV masking in OpenCV.
    * Established serial communication with Arduino to exchange object color data for hardware response.
    * Optimized detection accuracy by applying focus-based filtering to ignore background blur from mobile camera.
- **GitHub Repository**: Repository

PROGRAMMING SKILLS

- **Languages**: C/C++(Competitive programming), Python, JavaScript **Technologies**: Node.js, React.js, Express, GitHub, Passport.js, MongoDB

ACHIEVEMENTS

- **Problem Solving on LeetCode**: Solved 180+ problems with a max rating of 1471. Regularly practicing DSA to improve problem-solving skills. View Profile
- **Joint Entrance Exam (JEE)**: Scored 98.99 percentile in JEE Mains and AIR 18532 in JEE Advanced. Qualified for admission to premier engineering institutes in India.
- **National Champion – UCMAS India (2017)**: Won 1st place in a national-level abacus mental math competition, demonstrating exceptional speed and accuracy.
- **Guinness World Record Participant**: Part of a record-setting event involving 968 participants forming the largest human abacus in Ahmedabad, Gujarat.