

Jay Patwa

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EDUCATION

Indus University

BTech in Computer Engineering

Ahmedabad, Gujarat (8.5 CGPA)

2022-2026

EXPERIENCE

Codsoft Web Development Intern

- Built responsive user interfaces using HTML, CSS, JavaScript, and Bootstrap
- Gained exposure to front-end and back-end development cycles
- Learned the fundamentals of **HTML, CSS, JavaScript, and Bootstrap** while working in a real-world development environment
- Built basic, responsive web pages under guidance, gaining hands-on experience with front-end technologies

PROJECTS

AGASTYAHOMES – PROPERTY RENTAL & LISTING PLATFORM

- Developed a full-stack accommodation listing platform enabling users to create, edit, and manage property listings with secure authentication.
- Implemented Google OAuth 2.0 login, session-based authentication, and MongoDB-backed user management for secure access control.
- Integrated Cloudinary for image upload, optimization, and storage, supporting multi-image listings with responsive display.
- Designed dynamic listing pages using EJS, CSS, and JavaScript with form validations and interactive UI components.
- Built RESTful routes with Node.js, Express.js, and Mongoose, and deployed the application on Render with environment-based configuration.

SIDCUP FAMILY GOLF MODERN WEB EXPERIENCE (frontend project)

- Developed a fully responsive clone of the Sidcup Family Golf website with modern UI/UX and animation features. Implemented custom interactive cursor, video backgrounds, and 3D hover effects. Integrated scroll-based animations using GSAP (ScrollTrigger). Designed with a mobile-first approach for optimized cross-device performance.

Weather App with React

- Created a live weather forecast app using ReactJS and OpenWeatherMap API

- Features: current temperature, humidity, wind speed, location search, dynamic backgrounds
- Fully responsive and deployed on Vercel

AQI Monitoring Drone with ESP32 (Real-Time AQI Dashboard)

Designed and developed a drone-based air quality monitoring system using ESP32, sensors, and a custom web dashboard

- Built a real-time dashboard with HTML, CSS, JavaScript to visualize AQI, PM2.5, and PM10 data collected during flight
- Integrated GPS and multiple environmental sensors, and transmitted data wirelessly to the browser
- Responsible for both hardware, software development and ESP32 firmware programming

TECHNICAL SKILLS

- Languages: HTML, CSS, JavaScript, C, C++, Python, Java
- Frameworks & Libraries: React.js, Node.js, Express.js, Bootstrap
- Databases: MongoDB, SQL (MySQL)
- Tools & Platforms: Git, GitHub, Postman, Vercel, Render
- Domains: Full Stack Development, MERN Stack, REST APIs, IoT Integration