

# Gaurav Chaudhary

gaurav.chaudhary.865022@gmail.com | +91 8650119836  
[Github](#) | [Linkedin](#)

## Skills

**Languages:** HTML5, CSS, Bootstrap, C/C++, SQL, Python, JavaScript, Java, NodeJs, Express, DSA.

**Technologies & Tools :** AWS, EC2, S3, MongoDB, ExpressJs, ReactJS ,Nodejs, RESTful APIs, Android Development, DBMS, Power BI, Git, Postman, Deployment, OpenCV, System Design, Operating System, Trading(Financial Markets).

## Work Experience

### **InsideFPV, Vellore** May 2023 - Oct 2023 *Web Developer*

- Optimized website performance by 40%, reducing page load times through efficient coding practices and performance tuning, resulting in a 25% increase in user engagement.
- Integrated secure payment gateways and ensured compliance with industry security standards, enhancing transaction safety and reliability.
- Executed SEO best practices, improving the website's search engine ranking and increasing organic traffic.
- AWS, EC2, S3, Wordpress.

### **KuppiSmart Solutions Pvt Ltd** Sep 2023 - Mar 2024 *Web Development Head*

- Designed and developed a Adaptive website for Livestockify, showcasing their innovative use of IoT sensors to revolutionize farming.
- Integrated real-time data from IoT sensors, providing farmers with actionable insights and improving livestock health by 25%.
- Created interactive visualizations for environmental monitoring, including temperature, humidity, air quality, and ventilation data within livestock facilities.
- Thingspeak API, Javascript.

## Education

**VIT Vellore** July 2021 - Present Btech. in Electronics and Communications Engineering **CGPA: 8.31/10** .Relevant Coursework: DBMS, Databases,Data Structures and Algorithms.

## Project Work

- 1. MERN Stack Application with Admin Panel with the integration of Sanity IO(Headless CMS)** :The project implements user registration, login, and logout functionalities using bcryptjs for password hashing, jsonwebtoken for token-based authentication, and mongoose for user data storage.
  - Utilized Sanity IO (Headless CMS) for storing and managing blog posts, reducing content management time by 40%.
  - React-based frontend with routing (react-router-dom), styling, and interactive elements (lottie-react, react-lottie),User experience enhanced with toasts (react-toastify) and visual feedback.
  - Deployed on: <https://www.ridescom.com/>
- 2. Developed Android Application for Managing Academics in Institutions.** : Designed a backend database to store and manage a comprehensive collection of more than 1000+ CAT's and FAT's exam papers.
  - Incorporated secure authentication and authorization mechanisms using Firebase Authentication for seamless user data privacy.
  - Effectively managed dependencies using Gradle, incorporating various libraries (e.g., RecyclerView, Firebase, Glide, Lottie) to enhance app functionality and user experience.

- 3. **Smart Object Detection System:** Engineered OpenCV's deep learning-based object detection algorithms to optimize performance on the ESP32 CAM's embedded hardware.
- Integrated image processing pipelines to enable seamless real-time analysis of video streams from ESP32 CAM's built-in camera.
- Developed a real-time video processing pipeline using OpenCV's VideoCapture API to capture and process video frames from the ESP32 CAM's built-in camera at a rate of up to 30 frames per second (FPS).

## Awards and Certificates

- **Published a Research Paper on Smart Surveillance Object Detection System(IEEE):** Developed a custom object detection model using OpenCV on ESP32 CAM modules for real-time person detection and parking occupancy monitoring.
- Published in [2024 3rd International Conference on Artificial Intelligence For Internet of Things (AIoT)], highlighting advancements in IoT-based surveillance and smart city technologies.
- DOI : <https://ieeexplore.ieee.org/document/10574574>
- **Achieved 10 K+ Downloads on Lastone(Android Application for managing Academics).**

## Soft Skills

1. Communication Skills
2. Teamwork and Collaboration
3. Problem-Solving and Analytical Skills
4. Continuous Learning
5. Attention to Detail