

Himanshu Gangwar

Indian Institute of Technology Goa

Fourth Year **Undergraduate**, **Mechanical Engineering**
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Education

BTech, Mechanical Engineering: Indian Institute of Technology Goa	CGPA: 8.15/10	2020 - PRESENT
Class 12, CBSE: Jawahar Navodaya Vidyalaya, Rudrapur, U.S.Nagar	Percentage: 91.2%	2018 – 2019
Class 10, CBSE: Jawahar Navodaya Vidyalaya, Rudrapur, U.S.Nagar	CGPA: 10	2016 - 2017

Experience

Sniffme|Android Intern: (July 2022-Aug. 2022)

- Developed a **B2C e-commerce platform** for pet products from scratch, utilizing **Firestore** as the primary backend technology.
- Utilized **Firestore's Firestore** for real-time database storage and **Firestore Authentication** for secure user management
- Implemented new functionalities and made **crucial UI** modifications to enhance the platform's usability and appeal

Intern at IIT Goa under Prof. Thaseem Thajudeen for CO2 and PM concentration Monitoring system: [\[Certificate\]](#) (June 2022-Aug. 2022)

- Developed a **CO2 monitoring** device using **sensors** for use in automotive applications
- Designed and implemented an interface between an **SD card module** and an **Arduino board** using a **Data logger shield**.
- Implemented rolling mean to predict CO2 reading variations, replacing current time readings with the mean of the last 10 readings.
- Conducted in-depth **data analysis** of sensor readings to extract meaningful insights and trends.

Projects

App Development Projects:

- ShopLuxe (Shopping App):** [\[GitHub\]](#) (June 2023-July 2023)
 - Built an e-commerce shopping app using **flutter** for the frontend development, **NodeJS** and **ExpressJS** as backend.
 - Utilized **Bloc**, **Cubit**, and **Provider** for efficient state management, improving performance and responsiveness.
 - Implemented product categorization, cart functionality, user profile management, and order retrieval features.
 - Utilized **MongoDB** for robust and scalable data storage, and integrated **Razorpay API** to enable secure and seamless multi-channel payment processing within the application.
- Chat App using Flutter:** [\[GitHub\]](#) (July 2022-Aug. 2022)
 - Created a chat application using **Flutter framework**, Designed an intuitive user interface, allowing users to send messages.
 - Implemented **search functionality** to find the particular user to chat .
 - Utilized **Firestore's Firestore** for real-time database storage and **Firestore Authentication** for secure user management.
- Object detection with Auto Zoom using TensorFlow Lite:** [\[GitHub\]](#) (July 2022-Aug. 2022)
 - Flutter app that lets you take pictures of anything and autozooms to the right size to pick up an object that is in view.
 - utilizes **TensorFlow Lite**, a pre-trained machine learning model, to detect and identify objects captured in **real-time images**
 - uses a **selection logic** based on the **object's confidence rate** when multiple objects are detected.
 - the application implements an **auto zoom** feature by utilizing the object's **bounding box coordinates**.

Memories, A Web Application:

- An interactive web application designed for users to create and share events of interest.
- It's a Full Stack **MERN(MongoDB, Express.js, React, Node.js)** web application, **Redux** is employed for centralized **state management**.
- A user can post a memory with photo, title, description and tags and can like, delete and edit a post.
- Incorporates **JWT** (JSON Web Tokens) for traditional login/authentication and **Google OAuth** for streamlined sign-up and access control.

(Aug 2023)

Skills

Computer Skills:

C, C++, Python, Java Script, Dart, MATLAB, Fortran, MS Word, MS Excel

Development Skills:

HTML, CSS, REST APIs, ReactJS, jQuery, Bootstrap, Flutter, Firebase, NodeJS, MongoDB, Express, SQL, NoSQL, JSON, GitHub, JSX, API Testing, Redux, Provider, Bloc.

Electrical Software Skills:

Arduino UNO, LT Spice, Raspberry Pi

Mechanical Software Skills:

Solid works, AutoCAD, NX Cad

Computer Science courses:

Operating System, Database Management System, Data Structures and Algorithms, Computer Networks, OOPs.

Positions of Responsibilities

ArchiTechs Core Member: Technical Club for APP Dev and Web Dev of IIT GOA

(2021-2023)

IIT Goa Motorsports: Core member of Steering subsystem.

House Leader: House Leader of Neelgiri Senior Boys in School.

Achievements

- 3rd position in floating **structure model design competition** organized by CoE(Industrial Automation). [\[Certificate\]](#) (June 2022)
- Certificate of completion of flutter development Bootcamp. [\[Certificate\]](#) (July 9, 2022)
- I proudly represented my institution at the Inter IIT Basketball Championship 2022. [\[Certificate\]](#)
- 1650+ contest rating and among top 16% users on **Leetcode**.

Extracurriculars and Hobbies

- Enjoying playing Volleyball, Basketball, and E-Sports for fun and recreation.
- Enthusiastically enjoy coding as a hobby.
- Love watching movies especially south Indian movies and MCU movies (among the favourites are 3 Idiots, KGF, Avengers All part).