HIMDYUTI SANDILYA | 21EE10085

ELECTRICAL ENGG. (B.Tech 4Y)

EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2025	B.TECH	IIT Kharagpur	9.14 / 10
2021	Class XII, CBSE	SAI RNS Academy, Guwahati	84%
2019	Class X, CBSE	Maharishi Vidya Mandir, Guwahati	96%

PROJECTS

Amazon Clone App

- Created a fully functional clone of the Amazon app as a self project, implementing the key features of a e-commerce platform such as user authentication, product listing, shopping cart functionality(with ability to add, remove, and update items),database management to store user information, and secure and seamless payment integration.
- Complete frontend with **ReactJS** for user interface design, leveraging the power of React Hooks such as useState for dynamic updates of rendered data, useEffect for data fetching, and useContext for global state management.
- Utilized **Firebase** as a backend-as-a-service (BaaS) platform, incorporating real-time database for data storage, retrieval, and synchronization, and integrating Firebase **Authentication** for secure user registration, login and access control.
- Used **Flask** to integrate with **Stripe**, a payment processing platform, enabling seamless **payment integration**.

Campus Connect App

- Contributed to the development of a dynamic platform dedicated to connecting students for collaborative projects, internships, and networking opportunities, fostering an environment of knowledge sharing and professional growth.
- Implemented a backend system utilizing **Firebase**, incorporating features such as **user authentication** and real-time **database management** to ensure seamless user interface, multiple authentication providers and efficient data handling.
- Developed a simple yet effective **chat feature** utilizing Firebase Firestore, enabling real-time messaging and seamless communication within the student platform, enhancing collaboration and fostering effective team interactions.

Live Weather App

- Developed a simple weather application using **React**, providing users with real-time weather updates.
- Utilized API integrations to fetch and display precise real-time weather data for a user's location.
- Leveraged the power of **React Hooks** like useState for dynamic update of weather conditions, and useEffect for API calls.

Wildlife Perimeter Alarm

Professor: Siddharth Tamang, Department of Mechanical Engineering, IIT Kharagpur

- Designed and built a DIY miniature model of a wildlife perimeter alarm as a DIY course project. The project incorporated motion sensors, sound alarms, and LED indicators to simulate an effective wildlife detection.
- Designed the model using Tinkercad for virtual prototyping and Arduino UNO for hardware implementation

SKILLS AND EXPERTISE

Programming Languages: C++ , C, React, Flask, Python HTML, CSS, Javascript
Softwares: Freecad , TinkerCad, LTSpice

COURSEWORK INFORMATION

Programming and Data Structures, Probability and Statistics, Signals and Systems, Transform Calculus, Analog Electronic Circuits, Digital Electronic Circuits, Advanced Calculas, Linear Algebra, Data Communications

POSITIONS OF RESPONSIBILITY

Junior Member | Grimoire of Code

- Coordinated and organised GOC-CDC series on HackerRank to help the students preparing for CDC internship coding rounds.
- Actively contributed as a problem setter and tester for the competitive programming contests, creating challenging problem sets and ensuring their accuracy and fairness. In addition, also wrote editorials for the problems.

AWARDS AND ACHIEVEMENTS

- **Codechef Rating:** Achieved a maximum rating of **1811(Four Star)** on codechef.(Handle: himdyutis)
- **Codeforces Rating:** Achieved a maximum rating of **1496(Specialist)** on codeforces.(Handle:himdyuti)
- **Codeforces Performance:** Secured **Global Rank 587** among 22000+ participants in Codeforces Round 883(Div. 3)
- **Codechef Performance:** Secured **Global Rank 30** in Codechef May LongOne 2022
- Active competitive programmer on platforms like Leetcode, Interviewbit, GeeksForGeeks, etc.
- Secured Department Change on the basis of academic excellence in the first year offered to only 10% of the students.

EXTRA CURRICULAR ACTIVITIES

- Part of the **OpenSoft Software Development** Technical Team of Azad Hall of Residence
- Part of the **Gold** Winning Core and Fine Arts Team of Illumination 2022 of Azad Hall of Residence
- Successfully completed Combined Annual Training Camp, NCC in IIT Kharagpur, 2022