

Oindrila Das

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EDUCATION

INDIAN INSTITUTE OF INFORMATION TECHNOLOGY KALYANI

B.Tech Electronics and Communications Engineering

CGPA: 8.30

Kalyani, WB

2021-2025

WORK EXPERIENCE

AEL DATA

Software Engineering Intern

Remote

Sept 2023 - Current

- Developed a new React.js frontend for the customer facing web application which added a massive improvement to the page rendering time.
- Created an **API gateway** to efficiently route incoming requests to the server whilst increasing the security of the server.
- Maintained the repository for 4 services taking on the responsibility for overseeing the codebases and providing code reviews.

ANANTKAAL

Flutter Developer Intern

Remote

August 2023 – Sept 2023

- Designed and developed frontend for an Algo-trading platform with focus on enhancing user experience.
- Worked extensively with **Flutter** and other libraries to build robust frontend applications.
- Integrated the frontend with the backend, ensuring seamless data flow and communication between the user interface and server com

SKILLS

Programming: C++, C, Python, JavaScript.

Development: HTML, CSS, React.js, Node.js, Flutter, Firebase, Django, Docker, Flask, Git, Machine Learning.

PROJECTS

[Low Bandwidth Video Calling App](#)

(MERN, Machine Learning)

- Developed a web-based video calling application using **React, Node, Mongo, Socket.io, OpenCV** focusing on low bandwidth solutions for video calling.
- Utilized React for the frontend, Node and Express for the backend, MongoDB for database management, and Socket.io for real-time communication. Used OpenCV for image processing and downscaling the video stream to reduce data consumption.
- Integrated a **real-time chat** feature for text communication during video calls.

[Food Donation App \(Krita\)](#)

(Flutter, Firebase)

- Developed a mobile application using **Flutter** and **Firebase** for a food donation platform enabling users to browse and request food donations, and for donors to post donations and schedule pickups.
- Integrated Firebase Realtime Database for storing food donation details, including available food, pickup locations, and donation requests.
- Leveraged Firebase Authentication to facilitate users to create and log in to their accounts

IRIS based attendance system for Ministry of Rural Development (SIH '22)

(Flutter, Firebase, OpenCV)

- Developed a mobile application using flutter that records attendance using IRIS recognition system.
- Used OpenCV for extracting the iris from images provided by the user and later preprocessing the extracted part for model training and recognition.
- Used firebase as a database for storing the user details and IRIS images.

ACTIVITIES

- Winner at Smart India Hackathon '22 by Govt. of India
- Winner at Hack for Inclusion '22 by MLH
- Winner at Ideathon '22 by ECell IIIT Kalyani
- **Lead:** GDSC IIIT Kalyani.