

# YASH KUMAR DROMAR

Final Year Undergraduate

Department of Biological Sciences and Bioengineering

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## Education

Year	Degree/Certificate	Institute	CPI/%
2021-Present	B.Tech (BSBE)	Indian Institute of Technology Kanpur	7.2/10
2021	CBSE (XII)	Shealing Public School, Chhatarpur	81.2%
2019	CBSE (X)	Christ Jyoti School, Lavkush Nagar	93.2%

## Work Experience

**Flutter Web Application Development Intern** | *MeghGen Technologies* May'24-Jul'24

- Analyzed the existing codebase, eliminated redundancies, and restructured it to align with project requirements
- Implemented the **Bloc-Repository Architecture** to manage application state and separate logic from the UI
- **Integrated 15+ APIs**, including authentication APIs, to ensure a smooth and seamless app workflow for users
- Implemented a centrally managed theme for seamless light and dark mode switching, enhancing user experience

**Mobile App Development Intern** | *Cofinity Technologies Private Limited* May'23-Jul'23

- Implemented new UI design, simplifying workflows, improving user experience, and enhancing app usability
- Implemented **mobile number-based login** and **bearer token authentication** mechanism to secure API calls
- Developed and integrated **20+ APIs** in the frontend, ensuring smooth and seamless frontend-backend integration
- Integrated **push notifications using Firebase Cloud Messaging** and added **Google AdMob** into the app
- Added **multilanguage support** to the app, enabling localization for global users and improving app accessibility

## Key Projects

**Article App** | *Self Project* 🌐 Mar'24-Jun'24

- Built an app for reading and publishing articles using **Next.js**, **MongoDB**, **Tailwind CSS**, and **Firebase Storage**
- Developed an Admin Dashboard for article management, including creation, editing, publishing, and unpublishing
- Built an editor with image uploads, title/subtitle inputs, and markdown support for body text with inline images
- Implemented **Google Auth APIs** to create Google Login along with Email and Password based Authentication

**Random Dot Kinematogram (RDK) Experiment App** | *Course Project (BSE662)* 🌐 Mar'24-Apr'24

- Built an RDK experiment app using **React.js** and **Firebase** services like Firestore, Authentication and Hosting
- Utilized **Canvas and Web Animation APIs** to develop an RDK and animate its dots in the random directions
- Used Canvas APIs and **Event Listeners** to record the direction of moving dots in RDK as perceived by subject
- Developed a **Real-time Dashboard** to visualize recorded data with graphs and enable data download for later

**Lazybug | A Social Media Web App** | *Self Project* 🌐 Jul'22-Dec'22

- Developed a **Full-stack** Social Media Web Application using **Node.js**, **Express.js**, **MongoDB** and **React.js**
- Developed **10+ APIs**, integrated them into React.js, and used **Context API** for **Global State Management**
- Utilized **Socket.io** for creating chat, **Multer** for processing of user profile pictures and **AWS S3** for their storage
- Deployed the backend on **AWS EC2** with **NGINX**, installed **SSL**, and hosted the frontend on **Firebase Hosting**

## Skills

Languages	Frameworks & Libraries	Utilities & Tools
Java, JavaScript, C, Dart, SQL, HTML, CSS, Python, PHP, C#	Node.js, Express.js, Tailwind CSS, React.js, Flutter, Next.js	MongoDB, Git, AWS, Linux, Android Studio, VS Code, Unity

## Relevant Coursework

\* *Online Course*

Fundamentals of Computing	Linear Algebra and ODE	Applied Probability and Statistics
Bioinformatics & Computational Biology	Data Structures & Algorithm *	Full Stack Web Development *

## Position of Responsibility

**Head, Web & App** | *Antaragni'23* Jul'23-Apr'24

- Selected 9-member team by evaluating candidates' **skills** and **enthusiasm** through **assessments** and **interviews**
- Developed a **New Team Dashboard**, adding various new features to increase team **productivity** significantly
- Led the team in development of **First 3D Website for Antaragni**, significantly **enhancing user engagement**
- Led the team in developing new and enhancing existing websites and an app in line with the Antaragni'23 theme
- Received **10k+ registrations** and **50k+ visits** on the websites and app during Antaragni'23 from across India
- Developed and launched the full-fledged app for Antaragni during my tenure as an **Organizer in Antaragni'22**

**Web Developer** | *Counselling Service IIT Kanpur* Oct'22-Apr'23

- Responsible for keeping the Counselling Service website updated with the most recent and relevant information
- Developed a special and engaging webpage to highlight the different events organized by the Counselling Service
- Identified and fixed critical bugs in the counselling appointment system, which has been non-functional for a year
- Updated IIT Kanpur's Family Tree by adding New Students and enhancing its functionality and user interface

## Extra Curriculars

- Led the Web Development Team of BioSoc, student's society of the BSBE Department, to create its first website
- Led team to solve problem statement for Takneek 2023, an interpool technical championship at IIT Kanpur