






# Yash Kataria

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## EDUCATION

### Indian Institute of Technology Guwahati

Bachelors of Technology in Electronics and Communication Engineering

November 2021 - July 2025(Expected)

GPA: 7.24/10.0

## EXPERIENCE

### Spilll

Software Engineering Intern

May 2024 - Present

Gurugram, Harayana

- Worked on developing the **Admin Tool** for maintaining the Spilll app, ensuring efficient management and seamless operation of all its functionalities.
- Implemented features such as user whitelisting/blacklisting, invitation code management, notification scheduling and dispatch, and maintaining a storage drive for content distribution within the app.
- Implemented a caching mechanism using **Cloudinary**, which resulted in **85%** reduction in the application's response time.

## PROJECTS

### Techniche Website

Techniche, IITG

November 2023 - Present

techniche.org

- Led the development of a dynamic and responsive website using **React.js** for the frontend, **Node.js** for the backend, and **MySQL** for data storage and management, ensuring seamless functionality and enhanced user engagement.
- Successfully deployed the website on an **AWS EC2** instance, ensuring robust performance, scalability, and security.

### Facial Recognition on an FPGA

Prof. Gaurav Trivedi, Department of EEE, IIT Guwahati

January 2024 - April 2024

Report

- Collaborated to design and implement a facial recognition system using **ResNet-18** on a **Nexys A7100T** FPGA board, enhancing real-time image processing efficiency on the **5 Celebrity Faces Dataset**.
- Accelerated CNN computations with FPGA-based **parallel processing**, achieving **96% accuracy** after **35 epochs**.

### Jotion - A Note Making Application

Personal Project

December 2023

jotion-yash.vercel.app

- Developed a Notion-inspired rich content editor using **Next.js** for optimized performance, **Convex** for real-time database operations, and **Clerk** for secure OAuth authentication via **Google** and **GitHub**.
- Implemented **nested notes** organised in a tree like structure, alongwith functionalities like **dynamic heading/subheading formats** triggered by '/' and **web publishing**.

### Know Shop App

Kapili Hostel, IITG

January 2023 - February 2023

know-shop-apk

- Developed a mobile application that seamlessly connects users with multiple shops in and around the IITG campus, enabling convenient pre-ordering of desired items.
- Leveraged **Flutter** for customer and shopkeeper interfaces, utilizing **Firebase** for efficient backend data management.

## TECHNICAL SKILLS

**Programming languages:** C/C++, Python

**App Development:** Flutter\*

**Databases:** MySQL, MongoDB, ArangoDB

**Web Development:** HTML, CSS, JavaScript, React.js,

Next.js, Node.js

**Miscellaneous:** Git, GitHub, AWS\*, Figma\*

## ACHIEVEMENTS

### Kriti 2023

Ranked **1st** among 13 hostels in the Inter Hostel Technical Competition

### JEE(Main) - 2021

Stood among **top 1 percent** students out of **9.32 lakh** students.

### JEE(Advanced) - 2021

Stood among **top 10 percent** students out of **1.41 lakh** students.

### Google Code Jam Farewell Round A 2023

Secured **Global Rank 2387** among **8000+** participants.

### Codeforces

Rated **Specialist** on the platform (**Max rating - 1428**).

*danklord786*

### LeetCode

Solved over **700** DSA problems, achieving a contest rating of **1776**.

*yashkataria15*

## RELEVANT COURSEWORK

**Computer Science:** Data Structures and Algorithms, Introduction to Computing, Computer Networks, Pattern Recognition and Machine Learning

**Mathematics:** Linear Algebra, Probability and Random Processes, Multivariable Calculus, Differential Equations

**Electronics:** Digital Circuits, Signals and Systems, Embedded Systems

## POSITIONS OF RESPONSIBILITY

### Head of Web Operations, Techniche IIT Guwahati

Leading a **three-tier** team in developing and managing portals for Techniche, the annual Techno-Management Festival of IIT Guwahati.

November 2023 - Present

### Senior Web Developer, Students' Web Committee, IIT Guwahati

Developed widely-used campus projects and conducted a three-week React.js workshop with **500+** **participants** nationwide.

April 2023 - March 2024