

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

Perpetuum Innovations

Software Engineering Intern

May 2024 - Present

Gurugram, Hararyana

- 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.
- Leveraged the robust capabilities of **React.js** and **Node.js** for development, utilizing **ArangoDB** for efficient data management and **Redis** for optimized caching solutions.

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

github.com/know-shop

- 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

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

Round A 2023

Codeforces

Rated **Pupil** on the platform (**Max rating - 1379**).

LeetCode

Solved over **600** DSA problems on the platform, achieving a contest rating of **1667**.

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

November 2023 - Present

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

Senior Web Developer, Students' Web Committee, IIT Guwahati

April 2023 - March 2024

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