






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

May 2024 - July 2024

Software Engineering Intern

Gurugram, IN

- Developed a comprehensive **Admin Tool** for the Spilll app, enhancing the management and oversight of **1000+** users. This internal tool streamlined administrative processes, improving operational efficiency and user support.
- 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

November 2023 - Present

Techniche, IITG

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, allowing registration for **10+** events and ensuring enhanced user engagement.
- Successfully deployed the website on an **AWS EC2** instance, ensuring robust performance, scalability, and security.

Facial Recognition on an FPGA

January 2024 - April 2024

Prof. Gaurav Trivedi, Department of EEE, IIT Guwahati

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

December 2023

Personal Project

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 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

January 2023 - February 2023

Kapili Hostel, IITG

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, JavaScript

Cloud: Git, GitHub, AWS*, Shell Scripting*

Databases: MySQL, MongoDB, ArangoDB

Web Development: React.js, Next.js, Node.js

App Development: Flutter*

Design: Figma*

*Elementary proficiency

ACHIEVEMENTS

Kriti 2023

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

Codeforces

Rated **Specialist** on the platform (**Max rating - 1502**).

danklord786

LeetCode

Solved over **800** DSA problems, achieving a contest rating of **1776**.

yashkataria15

Google Code Jam Farewell Round A 2023

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

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.

RELEVANT COURSEWORK

Computer Science: Data Structures and Algorithms, Introduction to Computing, Computer Networks

Machine Learning: Pattern Recognition and Machine Learning, Recommendation System Design Using Deep 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 of over **75 Core Team** members and **300+ organizers**, overseeing the development and management of portals for Techniche, while ensuring the seamless offline execution of the fest across the entire IITG campus.

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.