Yash Kataria

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EDUCATION

Indian Institute of Technology Guwahati   November 2021 - July 2025 (Expected)
Bachelors of Technology in Electronics and Communication Engineering   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 - August 2024
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	**Web Development:** React.js, Next.js, Node.js
Cloud: Git, GitHub, AWS*, Shell Scripting*	**App Development:** Flutter*
Databases: MySQL, MongoDB, ArangoDB	**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 - 1539**).	*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.