



# Yash Kataria

Roll No.: 210102100

B.Tech - Electronics and Communication Engineering

Indian Institute of Technology Guwahati

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## EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. Major	Indian Institute of Technology, Guwahati	7.24 (Current)	2021-Present
Senior Secondary	Central Board of Secondary Education	95.8%	2021
Secondary	Central Board of Secondary Education	93.8%	2019

## EXPERIENCE

- Spilll** May 2024 - July 2024  
*Software Engineering Intern* Gurugram, IN
  - Developed an **Admin Tool** for the Spilll app, empowering the team to manage and oversee operations for **1000+** users.
  - Improved operational efficiency and user support through the internal tool, facilitating better oversight and management.
  - Implemented features to blacklist/whitelist users, manage invitations, send notifications, and handle content storage.
  - Integrated a caching mechanism using **Cloudinary**, achieving an **85%** reduction in the application's response time.

## PROJECTS

- Techniche Website** November 2023 - August 2024  
*Techniche - The Annual Techno-Management Fest of IIT Guwahati* techniche.org
  - Developed a robust and responsive website using **React.js** and **Node.js** to establish Techniche's online footprint.
  - Designed and implemented an optimized **MySQL** data storage solution for handling event registrations from **300+** cities.
  - Successfully deployed the website on an **AWS EC2 instance** ensuring robust performance, scalability, and security.
  - Attracted **10k+** unique visitors and **500k+** views on the website before the fest with **zero downtime**.
- Jotion - Cloud-Based Document Management** December 2023  
*Personal Project* jotion-yash.vercel.app | GitHub
  - Built a rich content editor using **Next.js**, supporting dynamic **text and image content** for complex document management.
  - Integrated **Clerk** for secure authentication with **Google** and **GitHub**, utilizing **Convex** for real-time database operations.
  - Implemented **nested notes** in a **tree-like structure**, **dynamic headings**, and options for **trashing** or **permanently deleting** notes.
  - Enabled **one-click web publishing** of notes, allowing users to effortlessly share their work online.
- Know Shop App - On Campus Order Management** January 2023 - February 2023  
*Gold Medal Solution - Software PS Kriti 2023* know-shop-apk | GitHub
  - Developed a **mobile application** that connects users with shops around the IITG campus, enabling **pre-ordering items**.
  - Developed separate customer and shopkeeper interfaces using **Flutter**, providing them a user-friendly experience.
  - Implemented **live order updates** and **QR Code Verification** mechanism to enhance customer engagement and ensure reliability.
  - Utilized **Firebase** for efficient backend data management, ensuring real-time updates and secure data handling.
- Facial Recognition on a FPGA** January 2024 - April 2024  
*Prof. Gaurav Trivedi, Department of EEE, IIT Guwahati* Report
  - Implemented a facial recognition system using **ResNet-18** on a **Nexys A7100T** FPGA board, boosting real-time performance.
  - Accelerated the **last layer CNN computations** with FPGA-based **parallel processing**, significantly reducing processing time.
  - Integrated **UART** for data transfer between FPGA and external devices, and achieved **96% accuracy** on the test set.

## TECHNICAL SKILLS

- Programming:** C/C++, Python, JavaScript
  - Web Development:** React.js, Next.js, Node.js
  - App Development:** Flutter\*
  - Database Management:** MySQL, MongoDB, ArangoDB
  - Operating Systems:** Windows, Linux\*
  - Miscellaneous:** Git, GitHub, AWS\*, Bash\*, Figma
- \* Elementary proficiency

## ACHIEVEMENTS

- Kriti 2023:** Secured **1st position** among 13 hostels in the Software Problem Statement for Kapili Hostel.
- Codeforces:** Rated **Specialist** on the competitive programming platform with a max rating of **1452**. (Handle - danklord786)
- LeetCode:** Achieved a maximum contest rating of **1776** and maintaining a streak of **220+ days**. (Handle - yashkataria15)
- Google Code Jam Farewell Round A 2023:** Secured **Global Rank 2387** among **8000+** participants.
- Joint Entrance Examination(Advanced) - 2021:** Stood among **top 10 percent** students out of **1.41 lakh** students.

## KEY COURSES TAKEN

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

- Web Operations Head, Techniche IIT Guwahati** November 2023 - September 2024
  - Led a **three-tier** team of over **20** developers in ideating, implementing and managing web portals for Techniche.
  - Coordinated logistics and ensured seamless execution of the fest across the IITG campus, managing **300+** volunteers.
- 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.