



Yash Kataria

Roll No.: 210102100

B.Tech - Electronics and Communication Engineering

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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

- Perpetuum Innovations Pvt. Ltd.** May 2024 - July 2024
Software Engineering Intern Gurugram, IN
 - Developed an **Admin Tool** for the **Spill** 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.
 - Deployed the website on an **AWS EC2 instance**, with continuous vulnerability checks and monitoring against cyber attacks.
 - Attracted **10k+** unique visitors and **700k+** views on the website **monthly** before the event 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 creation.
 - 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 Hub** 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**.
 - Implemented separate customer and shopkeeper interfaces using **Flutter**, providing them a user-friendly experience.
 - Integrated **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**, ensuring **reduced latency**.
 - 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*
- * Elementary proficiency

ACHIEVEMENTS

- Kriti 2023:** Secured **1st position** among **13** hostels in the Software Development 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** along with maintaining a streak of **230+ 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 AND EXTRA CURRICULARS

- WebOps 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**.
 - Led a team of **400+** volunteers to provide logistics and infra support for **50k+** visitors across **40+** events on campus.
- Guwahati Half Marathon, India's largest student organized marathon** April 2024
 - Organized the **14th edition** of the Guwahati Half Marathon aimed to raise public awareness for a **cleaner tomorrow**.
 - Coordinated with **campus administration** and **local authorities** to provide a fluid experience to **4000+** participants.
- Technothon, India's largest student organized logic-based examination** July 2024
 - Revamped the prestigious **national level** high school aptitude based examination after a four year hiatus.
 - Spearheaded the **development** of the web portal to ensure a frictionless examination experience for **15.1k+** students.