Yash Kataria

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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 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 maintaing 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 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.
  - Coordinated logistics and ensured seamless execution of the fest across the IITG campus, managing **400+** volunteers.

- **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.