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Syashkataria.org

## EDUCATION

## Indian Institute of Technology Guwahati

• Perpetuum Innovations Pvt. Ltd.

Software Engineering Intern

Bachelor of Technology in Electronics and Communication Engineering

Experience

November 2021 - July 2025 (Expected) CGPA: 7.23/10.0

May 2024 - July 2024

July 2024

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, reducing the application's average response time from 1s to 153ms. 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 ongoing vulnerability checks and cyberattack monitoring. • Attracted 10k+ unique visitors and 800k+ views on the website monthly before the event with zero downtime. • Jotion - Cloud-Based Document Management December 2023 Personal Project jotion-vash.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 to **move to trash** or **delete permanently**. • 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 updates and a QR code verification mechanism to enhance engagement and ensure reliability. • Utilized Firebase for efficient backend data management, ensuring real-time updates and secure data handling. January 2024 - April 2024 • Facial Recognition on an FPGA Prof. Gaurav Trivedi, Department of EEE, IIT Guwahati Report | GitHub • Implemented a facial recognition system with ResNet-18 on a Nexys A7100T FPGA, improving real-time performance. • Accelerated the final 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 languages:** C/C++, Python, JavaScript Database Management: MySQL, MongoDB, ArangoDB Web Development: React.js, Next.js, Node.js **Operating Systems:** Windows, Linux\* App Development: Flutter\* 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 a daily streak of 300+ days. (Handle -yashkataria15) Google Code Jam Farewell Round A 2023: Secured Global Rank 2387 among 8000+ participants. Joint Entrance Examination(Advanced) - 2021: Ranked in the top 10 percent students out of 250k+ shortlisted students. Relevant Coursework 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
- Guwanati hall Marathon, findla's largest student organized marathon
   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.
- Technothlon, India's largest student organized logic-based examination
- 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.