Aditya Kumar

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Education

National Institute of Technology Patna	2022 – 2026
B.Tech, Electronics and Communication Engineering	*CGPA: 8.81 / 10.00*
St. Aloysius Senior Secondary School, Jabalpur	2020 – 2021
Intermediate (XII) , Central Board of Secondary Education	*Percentage: 95.80 %*
St. Aloysius Senior Secondary School, Jabalpur	2018 – 2019
Matriculation (X) , Central Board of Secondary Education	*Percentage: 93.60 %*

Skills

- **Programming Languages:** C++, Python, C, Java, HTML, CSS, JavaScript (ES6+), SQL
- **Frameworks & Tools:** React.js, Node.js, Vue.js, Express.js, Next.js, VS Code, Git, GitHub, Redux, APIs (REST & JSON), Figma, Postman, Linux, Docker, Netlify, Vercel
- **Database/Cloud:** MongoDB, MySQL, Appwrite
- **CS Coursework:** Data Structures & Algorithms, Computer Networks, OOPs, Cloud Computing, DBMS

Experience

- **Expresso - The Literary & Art Club NIT Patna, Official Website**   **Live Demo**
  Overall Co-Lead & Project Coordinator | December 2023-May 2025
  - Launched a revamped club website with **React.js, Next.js, and Tailwind CSS**, resulting in **50+ daily users**, an **average session duration of 4.5 minutes**, and a **bounce rate below 25%**.
  - **Boosted user engagement by 55%** through an intuitive UI/UX that effectively showcased events, talent, and real-time updates, significantly increasing member participation and event visibility.

Personal Projects

- **Mass Mail: A GUI-based Python application to send bulk emails**   **GitHub**
  - Built a **GUI-based tool using Python, Tkinter, and SMTP** to automate bulk email delivery to 5,000+ recipients via CSV parsing, enabling per-user customized subject and body, with integrated robust error handling and a real-time progress bar for enhanced transparency and usability.
  - Attained a **90% delivery success rate** during test runs; **reduced manual email workload by over 50%** for small businesses and college clubs.
- **Text to Speech: A Web Application to read out your text inputs**   **GitHub** | **Live Demo**
  - Deployed a browser-based web app using **JavaScript, Web Speech API, and MediaRecorder API**, featuring **real-time word highlighting**, MP3 download (≥128 kbps), and support for **9+ languages and 25+ voices**.
  - Achieved **<1s latency and >95% cross-browser compatibility**.
- **Let's Chat: A Real-Time Chat Application**   **GitHub** | **Live Demo**
  - Built a scalable real-time messaging platform using **React.js, Socket.io, Zustand, and Tailwind CSS**, with **global state management**, a **responsive UI**, and an **efficient back end for seamless communication and optimized data handling**.
  - Achieved a **30% reduction in latency**, and **reduced development time by 50%** through reusable components and dynamic interfaces.

Achievements & Leadership

- Solved over **500+ DSA** problems across platforms like **LeetCode (Max Rating: 1741), Code360** etc..
- Garnered national acclaim for exceptional technical acumen and communication prowess: attained an **All India Rank of 839** in the highly competitive **Engineer's Ring of Honor** aptitude assessment; honored as **Best Reporter – International Press at NITP MUN 1.0**; and secured **1st Runner-up in Article Writing at the prestigious 2023 G20 Summit (Bihar Region)**.
- Led the planning and execution of institute-level technical and cultural events for over **3500+ students** in key leadership roles, including **Vice President of Expresso, Chief of Executive Board of NITP MUN 2.0, Technical Co Lead of TCF'24, Annual Techno Cult Fest**, and **PR & Marketing Lead of Design Company NITP**.