Ajay Kumar Yadav

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EDUCATION

National Institute of Technology (NIT)   Jalandhar, Punjab
*B.Tech in **Information Technology** CGPA: 7.49/10.00*   *Dec 2021 – Jul 2025*

Army Public School   Pathankot, Punjab
*High School (**PCMB**) Percentage: 94.4*   *Apr 2019 – Mar 2020*

SKILLS

Programming: C, C++, Java, Python, R, Git/Github
Technologies: CSS, Javascript (and TypeScript), **NodeJs**, MongoDB, **ReactJs**, **NextJs**, **Docker**
Libraries: Tailwind, jQuery, ExpressJs, Mongoose, Bootstrap, TensorFlow, NumPy, Pandas, Matplotlib, Seaborn
Languages: Hindi (Native), English (Professional)

EXPERIENCE

Sree2024 Website | *GitHub* | *Website*
- Developed and hosted a Next.js website for an international conference hosted by the Department of Chemical Engineering and Centre for Energy and Environment.
- Achieved Web Vital Ratings: **SEO 100, Performarce 98, Best Practice 96**
- Optimized key metrics: **FCP 1.1s, LCP 2.1s, CLS 0, TBT 30ms, speed Index 2.9s**

Hacking health website | *GitHub* | *Website*
- A NextJs Hackathon website
- Achieved Web Vital Ratings: **SEO 96, Performarce 95, Best Practice 100**
- Optimized key metrics: **FCP 1.2s, LCP 2.3s, CLS 0.001, TBT 40ms, speed Index 3.2s**

PROJECTS

AI Image Generating Website | *GitHub* | *Website*
- Utilized a tech stack including **React Js, Node Js, MongoDB, Cloundinary, and DALLE 2.0** API to develop this web applications.
- The website leverages DALL·E, an advanced image generation model, to empower users in creating unique images from prompts, fostering creative expression and enabling personalized content generation.
- Users can seamlessly share their generated images with a wider audience via the website's sharing functionality, facilitating the showcase of their creative creations.

Sumz | *GitHub* | *Website*
- A web application **ReactJs and Redux** project that allows users to input website links, harnessing the power of AI to extract and summarize relevant information from webpages. This technology stack ensures efficient data processing and presentation.
- Integrated a sharing feature, enabling users to easily distribute the summarized webpage content with others, promoting efficient information sharing and collaborative efforts. This enhances accessibility and collaboration among users.
- **SEO 100, speed Index 3.3s, LCP 3.1s**

MERN + Docker Calendar | *GitHub* | *Website*
- Developed a daily calendar system to centralize and streamline information on academic, sports, club activities, and placement events within the institute.
- Enhanced accessibility for students by providing options to view schedules on a daily, weekly, and monthly basis.
- Implemented Client Side filtering (as database in small) can be easily switched to Server Side Filtering.
- Completely **Dockerized** the application, ensuring easy setup on local machine
- Hosted the backend infrastructure as a **Docker image** .
- Achieved Web Vital Ratings: **SEO 99, Performarce 100, Best Practice 100**
- Optimized key metrics: **FCP 609ms, LCP 701s, CLS 0, TBT 0ms, speed Index 701ms**

Achievements

Achievements:

- Achieved an All India Rank (AIR) of 207 in the IISER (Indian Institutes of Science Education and Research) Amplitude Test in 2021.
- Hold a 5-star rating as a C++ programmer on HackerRank.
- Successfully solved over 500+ questions on Leetcode and GeeksforGeeks, showcasing proficiency in various programming and algorithmic challenges.

Club Involvement

- Actively contributed as a core member of the Google Developer Student Club, engaging in tech-focused initiatives and projects.
- Actively participated in robotics-related projects and activities as a core member of Rtist (Robotics Club).
- Core member of Zeal Society, actively involved in activities related to improving speaking skills, particularly in English, highlighting my commitment to enhancing communication abilities.