

Taran Pal Singh

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EDUCATION

Dr SPM International Institute of Information Technology

Computer Science and Engineering (SGPA: 9.08, CGPA: 8.82)

Naya Raipur, Chhattisgarh

August, 2023-Present

Wisdom Valley Senior Secondary School

Class 12th (90.2 %)

Jabalpur, Madhya Pradesh

May, 2023

St. Aloysius Senior Secondary School

Class 10th (92.6%)

Jabalpur, Madhya Pradesh

May, 2021

EXPERIENCE

Bluestock Fintech

SDE Intern (Remote)

August, 2024-October, 2024

- **Redesigned UI/UX with React**, building modular components and optimizing state management to boost user engagement by 25% (via session time/interaction rates).
- Enhanced frontend performance using React hooks and lazy loading, reducing page load time by **40%** and increasing click-through rates by **20%**.

PROJECTS

Jeevantu: Smart Inventory Management System

ReactJS, NodeJS, ExpressJS, MongoDB, Tailwind CSS

March, 2025

- * Developed a **multi-role inventory management** system with separate dashboards for **Admin**, **Cashier**, and **User**, ensuring efficient stock tracking, sales monitoring, and user-friendly interactions.
- * Implemented an Admin panel featuring real-time inventory tracking, **low-stock alerts**, sales reports with graphs and pie charts, and a billing system for seamless management.
- * Integrated a barcode scanner for cashiers to automate product addition and a user-friendly e-commerce module with CRUD operations, cart management, a payment gateway, and automatic bill generation, which gets added to the user's profile after payment.

Blabber: The Ultimate Chat Application

ReactJS, NodeJS, ExpressJS, MongoDB, Tailwind CSS, Socket.io

January-February, 2025

- * Developed "**Blabber**" – a real-time chat application using the MERN stack and **Socket.io** for seamless instant messaging.
- * Implemented secure authentication with **JWT**, featuring a fully functional Login/Signup system and user profile management.
- * Designed a responsive and intuitive UI/UX, enabling profile viewing, image sharing, group creation, and emoji support for an engaging chat experience.

TreadSmart

Internet of Things (IoT), Machine Learning (ML), Thingsboard, Blender

Sept-Dec, 2024

- * Developed **TreadSmart**, a **Digital Twin** of a tire, predicting performance in challenging and untested conditions.
- * Integrated preprocessed **real-world tire data** with a custom CAD model to create the digital twin.
- * Achieved **95.3%** accuracy in performance prediction, validated against real-world data.

TECHNICAL SKILLS

Programming Languages: C/C++, Python, HTML/HTML5, CSS, Javascript

Libraries, Frameworks & Tools: VS Code, Pandas, Numpy, Jupyter Notebook, Git/Github, Postman, Tailwind CSS, jQuery, Bootstrap, ReactJS, NodeJS, ExpressJS, MongoDB, LaTeX

CERTIFICATIONS AND ACHIEVEMENTS

- **Pupil** at Codeforces (Max-Rating:1256)
- Placed among the **top three teams** in the Sponsor Track of **Hack-O-Harbour**, IIIT Naya Raipur, showcasing innovative problem-solving and technical excellence.
- Certificate of Completion of **Responsive Web Design** from **freeCodeCamp** [Link](#)
- Certificate of Completion of **Javascript Algorithms and Data Structures** from **freeCodeCamp** [Link](#)