Jai Marothiya

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EDUCATION

Indian Institute of Technology Kharagpur — 2025
M.TECH Dual Degree 5Y Mechanical Engineering — *Current CGPA: 8.52/10*

Central Academy — 2020
Class XII(CBSE) — *Percentage: 92.6%*

Demonstration Multipurpose School — 2018
Class X(CBSE) — *Percentage: 88.4%*

INTERNSHIP

Software-Development Intern | WTS Business Solutions | *ReactJS, HTML, Tailwind CSS* — Jul'22 - Aug'22
- Developed the login page, responsive nav-bar, and slider and integrated into an ed-tech website with over **1K** users
- Developed proficiency in effectively utilizing **GitHub's**(Version Control) collaborative features for code management
- Contributed to project success by applying newly acquired knowledge like **ReactJS**, and, **responsive development**

Research Intern | IIT - Kharagpur | *Python, OpenCV, Raspberry Pi and NumPy* — May'22 - Jul'22
- Worked under **Dr. Vikranth Racherla** (Dept. of Mech. Engineering) with a team of **5** Members for six weeks
- Created an Attendance Monitoring System which is successfully capturing the attendance data for over **500** students
- Achieved **78%** accuracy in attendance recording through **real-time tracking**, significantly reducing human errors
- Utilized **Python** automation to streamline attendance management, resulting in a lot of reduction in admin workload

PROJECTS

Live Chat | *ReactJS, NodeJS, ExpressJS, Socket.io, Chakra-UI, MongoDB, Cloudinary, HTML5, CSS* — Sep'23 - Oct'23
- Developed a real-time **chat application** using ReactJS, Express.js, and Socket.io, enabling seamless communication
- Implemented robust user management, **JWT** authentication, single and group chat features for enhanced security
- Conducted testing of more than **20 API** with Postman and introduced missed chat message notifications feature

Charts Builder Application | *ReactJS, Firebase, Trello, HTML, ChartJS, Figma, and, Tailwind CSS* — Jun'23 - Aug'23
- Developed a **UI** that enables users to create charts and a **live preview** feature to facilitate real-time visualization
- Integrated **Firebase authentication** to ensure a login facility and enable an admin dashboard for data management
- Improved the usability by implementing a **PDF** download feature for saving and sharing the charts effortlessly
- Reduced errors by **29%** by introducing distraction-free mode and data entry input processes via **CSV** import/export
- Boosted data efficiency by **23%** and plan to enhance functionality by providing an embed code for website integration

Seafood Market Portal | *ReactJS, Firebase, HTML, Figma, Netlify, and, Tailwind CSS* — Nov'22 - Dec'22
- Designed an application that provided seafood sellers with an advanced platform to interact efficiently with customers
- Incorporated use cases such as adding and removing food from inventory with a **login facility** for the maintainer
- Developed a visually appealing **UI** that enhances the user's experience and facilitates smooth application navigation

Snake Game | *HTML, CSS, JavaScript, Netlify* — Sep'22 - Oct'22
- Developed a captivating snake game with appropriate graphics and displayed a **dynamic leaderboard** of users' score
- Keep the game responsive for all devices, and accept **keyboard commands** for controlling the snake movements
- Applied the **request animation frame method**, and the event listeners to make the page delightfully responsive

SKILLS/RELEVANT COURSEWORK

Languages: C, C++, JavaScript, Python, Java, MySQL **Frameworks**: ReactJS, NodeJS, React Native, Express.js
Software: Firebase, ChatGPT, Netlify, Google Collab **Others**: Git/GitHub, HTML, MongoDB, Tailwind CSS, Figma
Courses: Programming and Data Structures, Google UI/UX Design (Coursera), Soft Computing, Operation Research

ACCOMPLISHMENTS

- Secured a global rank of **489** in CodeKaze Round 2 (Coding competition by Coding Ninjas) among **40k+** participants
- Secured a global rank of **124** in Starters-95 in Codechef among **15000+** participants and a maximum rating of 1629
- Secured a global rank of **1808** in Codeforces Round 883 among **33000+** participants and a maximum rating of 1355
- Recipient of the **Merit-Cum-Means (MCM)** scholarship for demonstrating outstanding academic performance
- Secured Rank in the top **3** percent in JEE Advanced, and **99.23** percentile in JEE Mains among 11,50,000 candidates

EXTRA-CURRICULAR ACTIVITIES AND HOBBIES

- Got **Bronze Medal** in Inter Hall Basketball Tournament 2021-22, IIT Kharagpur after competing against 15 teams
- Student volunteer at National Service Scheme(**NSS**) IIT Kharagpur and actively involved in various Social Works
- Spearheaded the flawless execution of props and vital logistics for the Inter-Hall Street Play Competition performance