

Tarun Mali

Curriculum Vitae

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Education

2020–2024 **IIIT Vadodara-International Campus Diu, Daman & Diu.**

Computer Science, Bachelor of Technology
7.99/10 (Till 6th semester)

Scholastic Achievements

2023, 2022 **ICPC 2022 and 2021 Regionalist**, *International Collegiate Programming Contest*, 🏆Standings.

- One of the 160 teams to be selected for Mathura-Kanpur onsite among 2306 teams and one of the 160 teams to be selected for Amritapuri onsite among 4992 teams which gave the preliminaries

2022 **AKAM SSIP Hackathon Semifinalist**, *Azadi ka Amrit Mahotsav Hackathon*.

- Developed backend for a feature-rich SOS Mobile App for women's safety in Node.js and MongoDB.

Work Experience

2023 **KGE TECHNOLOGIES PVT LTD**, *ReactJS Developer Intern*.

- Worked in a team of two engineers and two interns to migrate the existing site made in Vanilla JavaScript to React resulting in a more responsive and interactive website.
- Developed and implemented 20 plus frontend features and components in React.

Projects

- WebRTC, TensorFlow.js, React **P2P Video chat with posture classifier Web App**, 🌐 *Github*.
- A peer to peer video chat app which uses a signaling server to establish connection between peers, once established, video streams flows directly between the browsers.
 - Uses *Tensorflow.js* in the browser to predict right and wrong posture in real-time.(according to the training data provided)
 - Live on: <https://p2p-ml-vc.vercel.app/>
- Web Assembly, React **Gif Maker from video Web App**, 🌐 *Github*.
- A high performance application that can convert a video file to a GIF by using *FFmpeg library (written in C)* in the browser without sending the video to the server by use of web assembly in the browser.
 - Live on: <https://gif-from-video-webassembly.vercel.app/>
- C, Socket programming **Multi user chatting application**, 🌐 *Github*.
- A CLI application where clients can send messages which is received by a central server which is propagated back to all other clients implemented with the help of Sockets.
- React, Tailwind CSS, Redux Toolkit **FoodGood**, 🌐 *Github*.
- Food Delivery Web Frontend using *Swiggy public API*
 - Uses *Redux Toolkit* for state management, *lazy loading* and effects like *Shimmer*.
 - There is a server deployed to bypass *CORS error* in accessing *Swiggy Public API*.
 - Live on: <https://food-order-prod.vercel.app/>

Skills

- Languages *C++(Primary), C*
- Web React, JavaScript. HTML/CSS, Redux Toolkit, Tailwind CSS, Web Assembly, Parcel
- Databases MongoDB, MySQL, Sequelize.js
- Cloud Vercel, DigitalOcean

Relevant Courses

Object Oriented Programming, Data Structures, Design and Analysis of Algorithms, RDBMS/sql (Relational database), Operating Systems, Computer Networks, Parallel computing