



## EDUCATION

| Year | Degree/Exam           | Institute                     | CGPA/Marks |
|------|-----------------------|-------------------------------|------------|
| 2024 | M.TECH Dual Degree 5Y | IIT Kharagpur                 | 8.19 / 10  |
| 2019 | 12th Board (SSC)      | Dr. D.Y. Patil Junior College | 91.38%     |
| 2017 | 10th Board (SSC)      | St. Xavier's high School      | 96.60%     |

## INTERNSHIPS

## Product Engineer Intern | TCG Digital

May 2023 - Jul 2023

- Developed a web app that autonomously **generates** source code and **dockerfile** for CRUD web apps based on user-provided app specs
- Engineered a **JSON editor** that effectively managed JSON parsing and validation, enhancing the process of generating web applications
- Successfully incorporated **CSV file upload functionality** to populate the generated web application with CSV data in ReactJS frontend
- Architected the **execution coordinator** and essential logic to generate source code, package it into a downloadable zip file, store it in DB
- Engineered the backend with **NodeJS** and **MongoDB**, effectively managing user systems and storing previously generated applications

## Software Development Intern | AYVA Labs

Jan 2022 - Mar 2022

- Designed and implemented a range of features on the website, using React, Node.js, and **PostgreSQL** to enhance the user experience
- Created an enhanced user experience for the Operations Team by designing and developing the **Admin Panel** frontend using ReactJS
- Successfully delivered RESTful **APIs** using Node.js and PostgreSQL, optimized SQL queries, and seamlessly integrated them with frontend
- Implemented real-time video calling feature with **Twilio's** JavaScript integration to enhance patient-doctor engagement ensuring security
- Integrated **payments** feature using the **Razorpay API**, storing results in the DB, and facilitated **Google Analytics** for Ops Team research

## Backend Engineering Intern | Kwicpic AI

Sep 2022 - Nov 2022

- Designed and developed **microservices** APIs using NodeJS and MongoDB, and utilized **pm2** for log monitoring and system updates
- Employed MongoDB **aggregation pipelines** and bulk operations to optimize APIs, enhancing DB queries and overall system efficiency
- Successfully deployed REST APIs on **docker**, while orchestrating container management through **Kubernetes** for streamlined scalability

## PROJECTS

## SocialConnect | Self Project

May 2021 - Jul 2021

- Created an end-to-end social media platform, including real-time messaging, image posting, and follower functionality, with **NextJS**
- Developed a dynamic homepage incorporating **infinite scrolling** and the capability to view posts only from followed users on web app
- Integrated real-time notification and messaging systems using NodeJS and **Socket.IO**, enhancing the interactive features of the platform
- Engineered RESTful APIs using **Node.js**, and **MongoDB**, and implemented authentication and security to safeguard the user system data

## Real-time GeoCall Web App | Self Project

May 2022 - Jun 2022

- Created a web app with **MERN** stack, integrating real-time messaging, location sharing, and video calling functionalities with WebRTC
- Implemented a real-time messaging system using the **Socket.IO** library enabling users to share messages and track their locations on app
- Enabled smooth **real-time video** communication by deploying video calling functionality through the integration of **WebRTC** and PeerJS
- Created an Online Location Tracking System by employing the **Google Maps API** and Socket.IO to achieve real-time tracking functionality

## COMPETITION/CONFERENCE

- Secured a global rank of **865** and **1440** in the Google Kickstart Round H, B 2022 resectively organized by Google
- Secured a global rank of **106** and **124** in Starters 91 Div 2, Feb Cook-Off resectively organized by CodeChef
- Secured a global rank of **673** and **1001** in Codeforces Round #883, #859 resectively and **454** in LeetCode Contest 348
- Recieved a max rating of **1986** on LeetCode, **1812** on CodeChef and **1440** on Codeforces. (Handle : bhatte)

## AWARDS AND ACHIEVEMENTS

## InterIIT Tech Meet 10.0 | Mercari - Large Scale System Design Hackathon

- Secured the **Gold** position among **20+** IITs by presenting an innovative, scalable cloud solution for a Healthcare Management System
- Developed REST APIs for the patient **microservice**, deployed it on **Docker** and managing container orchestration through **Kubernetes**

## Website Hackathon | TSG IIT Kharagpur

- Achieved recognition for winning the **Best Feature Prize** for integrating realtime notifications with MERN stack, among **30+** teams

## SKILLS AND EXPERTISE

**Languages :** C, C++, Javascript, Typescript**Frameworks and Libraries :** ReactJS, ExpressJS, NodeJS, NextJS, SocketIO, WebRTC, MongoDB MYSQL, PostgreSQL, Docker, Kubernetes

## POSITIONS OF RESPONSIBILITY

## Associate Manager | Web Team | Inter IIT Tech Meet 10.0

Dec 2021 - Mar 2022

- Coordinated with the Web and Operations Team and developed the website for Inter IIT Tech Meet with React and updated it timely

## Technical Team Head | Kshitij, IIT Kharagpur

Sept 2020 - April 2022

- Organized and led a web-development summer workshop for junior peers, attracting over **600** enthusiastic first-year participants
- Successfully implemented the **Google Sign-In functionality** and skillfully integrated web pages for the Relic Hunter website using React

## EXTRA CURRICULAR ACTIVITIES

- Guided 10+ KOSS students (2021,2022) in open source, in my Mumble and letsUpsolve projects, fostering growth in tech community
- Contributed to RocketChat repository addressing issues and submitting PRs, showcasing collaborative skills and opensource engagement