

Pratik Prakash Patil

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Education

Indian Institute of Technology (ISM)

Bachelor of Technology in Mineral and Metallurgy (GPA: 7.92)

Expected May 2025

Dhanbad, Jharkhand

Sarvodaya Sr. Sec. School Kota, Rajasthan

All India Senior School Certification Examination (CBSE) XII

July 2018- May 2020

PCT-82.00

Projects

Employee Management System | MongoDB, Express.js, React.js, Node.js

[Github](#)

- Built a full-stack Employee Management System using the MERN stack **MongoDB, Express.js, React.js, Node.js** to manage employee data efficiently.
- Added powerful **CRUD** features for easy handling of employee records.
- Created a **responsive** and **user-friendly** interface to improve usability and workflow.

Real-Time Location Tracking | Node.js, Express, Socket.io, Leaflet

[Github](#)

- Developed a real-time location tracking app using **Node.js, Express, Socket.io**, and **Leaflet** for geolocation sharing and live updates on a map.
- Implemented **Socket.io** for seamless real-time communication and instant location updates between users.
- Deployed the app on **Render**, providing a scalable and accessible platform with real-time map tracking for users.

BigInteger library | C++, OOPs

[Github](#)

- Developed a **C++ library** for handling integers exceeding standard data types.
- Implemented operations such as addition, subtraction, multiplication, division, and modulo for large integers.
- Included functions for GCD, LCM, factorial, and exponentiation.

MERNchat | MongoDB, Express.js, React, Node.js

[Github](#)

- Developed a real-time chat application using the MERN stack **MongoDB, Express.js, React, Node.js**, allowing users to send instant messages and receive notifications.
- Integrated **Socket.io** with **WebSockets** for seamless, real-time communication and message updates.
- Designed and implemented a **responsive user interface**, ensuring a smooth chat experience across devices.

Technical Skills

- **Languages:** C++, C, Python
- **Full Stack Development:** HTML, CSS, JavaScript, React.js, Express.js, jQuery, Node.js, Git, Github, EJS, SQL, MongoDB
- **Data Structures and Algorithms (DSA), Object Orienting Programming (OOP), Database Management System (DBMS), Operating Systems (OS)**
- **Strong Programming Skills, Strong Analytical and Problem-Solving ability, Time Management, Teamwork**

Achievements

- **Global rank 156** in CodeChef Starters 148
- **Specialist** on [Codeforces](#) (300+ Questions)
- **3-Star** on [CodeChef](#) (200+ Questions), [LeetCode](#) (100+ Questions)
- Secured **3rd rank** in ACIC Hackfest 2023 organized by IIT (ISM) Dhanbad
- Secured **3rd position** in Chem-e-Code, in Concetto 2022 (Tech-fest of IIT(ISM) Dhanbad)

Social Engagements

Volunteer: at FFI - NGO run by students of IIT Dhanbad to educate underprivileged childrens.

Organisor: Coordinated and managed events at Srijan, the socio-cultural fest of IIT(ISM) Dhanbad.

Sports-Engagements: cricket, Kabaddi.