



Yash Kshitiz

Roll No.: IMH/10050/22
Integrated Master of Science
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EDUCATION

- **Birla Institute of Technology, Mesra** 2022-Present
IMSc. in Mathematics and Computing CGPA: 9.07
- **City Montessori School, Lucknow** 2022
Senior Secondary, ISC Percentage: 95.5
- **City Montessori School, Lucknow** 2020
Secondary, ICSE Percentage: 98.6

PROJECTS

- **MyPixelTalks** 2024
[GitHub Repository](#)
 - **Tools & technologies used:** Dart, Flutter, Cloudinary, Firebase and Firebase Cloud Messaging.
 - An **Android Application** connecting users remotely for 1-to-1 chatting and media exchange.
 - Started as a learning experience for real-time messaging.
 - Database operations are managed using **Firestore** and **Firebase**.
 - Push Notifications are handled through **FCM Tokens**.
 - A 1-to-1 chat system allows direct interaction between users.
 - Media uploads are handled using **Cloudinary**.
- **LudoArena** 2025
[GitHub Repository](#)
 - **Tools & technologies used:** Flutter, Dart, Bloc, WebSockets, Express.js, Node.js, MongoDB, Mongoose
 - Designed and developed a **real-time multiplayer Android Application - Ludo** with turn-based gameplay using WebSockets.
 - Implemented a custom **game logic on the backend** to manage player actions, dice rolls, and piece movements.
 - Developed a **WebSocket-based signaling system** for real-time communication between players, ensuring minimal latency with a <1% failure rate.
 - Utilized **MongoDB** to persist game sessions, player states, and match history efficiently.
 - Structured the Flutter frontend with **Bloc state management** to ensure smooth UI updates and game state synchronization.
 - Handled **game room management**, allowing dynamic creation, joining, and exiting of game rooms with automatic session handling.
 - Designed **RESTful APIs** for managing game state, user actions, and analytics.

TECHNICAL SKILLS AND INTERESTS

- **Languages:** C, C++, Java(OOPS), JavaScript, Dart, SQL
- **Developer Tools:** Git, GitHub
- **Technologies:** MongoDB, Flutter, Express, Mongoose, Firebase
- **Soft Skills:** Problem Solving, Critical Thinking, Communication, Team Work, Leadership
- **Coursework:** Object-Oriented Programming, Database Management System, Operating Systems, Data Structures, Design and Analysis of Algorithms, MATLAB

PROFILES

- **LeetCode:** [ThunderSpear21](#) (Max Rating: 1736) 300+ Problems
- **Codeforces:** [ThunderSpear](#) (Max Rating: 1447, Specialist) 200+ Problems

ACHIEVEMENTS

- Codeforces: [Round 1027 \(Div. 3\)](#) Achieved a Global Rank of **1782** out of 41,000 participants.
- Secured **3rd** position among **100+** students in [IET recruitment](#) - coding contest.

POSITIONS OF RESPONSIBILITY

- **IET - Student branch, BIT Mesra** Jan 2024 - Present
Member, Tech Team Ranchi, IN