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in Shamik Mandal

EDUCATION

Motilal Nehru National Institute of Technology Allahabad — *2023-26*
Master of Computer Applications — CPI: 8.24

Banaras Hindu University — *2020-23*
Bachelor of Science (Hons.) in Computer Science — CGPA: 8.84

Ramakrishna Mission Boys' Home High School Rahara — *2018-20*
12th, West Bengal Council of Higher Secondary Education — Percentage: 92.4

Bairatiguri High School — *2018*
10th, West Bengal Board of Secondary Education — Percentage: 92.85

PERSONAL PROJECTS

JobSphere 🌐 — *September 2025 - Present*

A full-stack MERN platform for real-time collaborative technical interviews.

- **Tech Stack:** React.js, Node.js, Express.js, MongoDB, Socket.IO, WebRTC, Monaco Editor, Excalidraw API, Puppeteer, Gemini API, JWT, Cloudinary.
- **Real-Time Collaboration:** Integrated a **Monaco-based code editor**, a shared **Excalidraw whiteboard**, and **WebRTC videocall**, all fully synchronized.
- **State Signaling Server:** Engineered a **Socket.IO** communication layer to manage simultaneous state changes for the editor/whiteboard and to act as a signaling server for WebRTC connections.
- **AI-Driven Question Generator:** Built a **Puppeteer** service to scrape problems and leveraged the **Gemini API** to auto-generate corresponding test cases.
- **Authentication Storage:** Secured the platform using **JWT** (JSON Web Tokens) and managed media/file uploads using **Cloudinary**.

BeHealthy 🌐 — *March 2025*

A MERN-based wellness web app that recommends yoga poses based on body parts.

- **Tech Stack:** MongoDB, Express.js, React.js, Node.js, and Tailwind CSS.
- **Yoga Recommendations:** Linked yoga poses to specific body parts for personalized guidance.
- **User Authentication:** Enabled secure login and personalized user tracking.
- **Yoga Venue Locator:** Used **Leaflet.js** to help users find yoga venues within 10 km for morning/evening sessions.
- **Live Streaming Yoga Classes:** Instructors can host **live sessions or upload** recorded ones, users access all past and current classes via the Yoga Upload and Live Class page.
- **Admin Panel:** Developed a dedicated admin dashboard to manage yoga pose content and oversee user activity.

NetworkNest 🌐 — *November 2024*

NetworkNest is a social media web application.

- **Tech Stack:** React.js, Node.js, Express.js, MongoDB and Tailwind CSS.
- **User Feed:** Designed an interactive feed where users can view, like and comment posts effortlessly.
- **Real-Time Chat:** Implemented instant messaging using **WebSocket/Socket.IO** for a seamless user experience.
- **Search and Filters:** Built system to find profiles, jobs, and posts by name, title, skills, and more.
- **Dark/Light Mode:** Theme toggle for personalized user experience.
- **Feed Pagination:** Implemented **infinite scroll** and offset-based pagination.

TECHNICAL SKILLS AND INTERESTS

Languages: C++ , C , JavaScript
Developer Tools: Git , Github
Libraries & Frameworks: React.js , Express.js
Cloud/Databases: MongoDB
Soft Skills: Problem Solving
Areas of Interest: Data Structures and Algorithms , Full Stack Development

ACHIEVEMENTS

3rd Position in Dev-or-Die: Hackathon organized at MNNIT Allahabad *[Certificate]* — *November 2024*

CODING PROFILES

LeetCode : /shamikLeetCode | CodeForces : /shamikCodeForces | GfG : /shamikGfG