Ratul Saha

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Education

Indian Institute of Technology(Indian School of Mines), Dhanbad	Oct 2022 – June 2027
Integrated Master of Technology	*GPA: 8.49 / 10.00*

Experience

mavonic   May 2024 – April 2025
Associate Full Stack Developer | Letter of Appreciation ↗
- Developed **Dokimi Dashboard** ↗, an **organization management portal** for an automated API testing tool(Dokimi) with project-based test grouping, user roles, story-wise test execution, and detailed run tracking.
- Crafted a **phishing-aware short link generation platform Lyk** ↗, supporting campaign and integration-based links with authentication via email/phone and redirect delays with onboarding and bulk upload flows for organizations.
- Implemented a **secure parent onboarding flow for KinderNest** (Dubai-based daycare app), resolving unintended sign-ins and enabling expirable email verification links, with UI and logic updates across app and admin portal.

Projects

Sickbay.ai ↗ | *Next.js, Node.js, Express.js, Flask, MongoDB, PyMongo, Shadcn*   April 2024
- **Engineered** a comprehensive web app combining a **medical LLM** with **text OCR**, enhancing context recognition and improving patient document analysis speed.
- **Built** a **Flask server** for integrating ML and connecting to MongoDB using PyMongo.

Eco Sorter ↗ | *React.js, Node.js, Express.js, MongoDB, FastAPI, Framer Motion*   October 2023
- **Developed** a MERN application for sorting waste into Recyclable and Non-Recyclable using Machine Learning.
- **Designed** the screens using React.js, integrating animations, improving user experience.
- **Architected** JWT(jsonwebtoken) authentication and integrated a leaderboard to gamify user experience.

EasyJourney ↗ | *JavaScript, Firebase, HTML, Tailwind CSS, SMTP.js, Geoapify API*   February 2023
- **Programmed** a comprehensive web application catering to tourists' needs.
- **Implemented** user authentication using **Firebase** with user-search history enabling 20,000 calls/day.
- **Displayed** detailed information about trains, hotels, and attractions for more than 50+ destinations around India.

Sports Programming

Platform	User Profile	Rating	Problems solved
Codeforces	22je0785	1443 (Specialist)	400+
Codechef	22je0785	1680 (3 Star)	100+
AtCoder	22je0785	394 (9 Kyu)	50+

Technical Skills

Languages: JavaScript, TypeScript, Golang, C/C++, Python
Frameworks & Libraries: React.js, Next.js, Node.js, FastAPI, Flask, Hardhat, Prisma, Tailwind, Shadcn, Framer Motion
Database: MongoDB, MySQL
Tools: Firebase, Supabase, FlutterFlow, Git/GitHub, Figma

Achievements

- Secured **Rank 1** among **200+ participants** at **Winter of Code 5.0** hosted by **Cyberlabs IIT(ISM)**
- **2nd Runners Up** among **150+ teams** at **Hackfest 2025** hosted by **IIT(ISM) Dhanbad**
- Led our team at **Masterstack 2.0** - hosted in Concetto 2023 **(technical fest of IIT(ISM) Dhanbad)**
- **10+ Pull Requests** across Open Source Organizations (The Palisadoes Foundation, Jenkins)

Position of Responsibility

Division Head: of **Web Development Division** of **Cyber Labs**, the Data & Software Tech Club of IIT(ISM) Dhanbad
Technical (Web) Organizer:Srijan '24 (Cultural Fest) ↗ : Maintained in GitHub ↗, Parakram '24 (Sports Fest).