

# ROHIT MONDAL

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## SUMMARY

Final-year Computer Science student with hands-on experience building full-stack web applications using **React**, **Node.js**, and **MongoDB**, with exposure through **open-source contributions** and **hackathon-driven development**. Seeking to apply strong problem-solving and clean coding practices to deliver scalable, real-world solutions in a collaborative environment.

## EDUCATIONAL QUALIFICATION

B.Tech in Computer Science Engineering; **GPA: 8.30**

NSHM Knowledge Campus, Durgapur

June 2022 - June 2026

## WORK EXPERIENCE

### 1. Backend Development Intern

NeuroInkX

August 2025 - October 2025

- Developed and debugged RESTful APIs with **Node.js** and **Express.js**, focusing on reliability and performance optimization.
- Designed modular components following software engineering principles such as loose coupling and separation of concerns.
- Integrated **Apache Kafka** for reliable inter-service communication.

### 2. Frontend Development Intern

Staffanchor Talent Solutions

October 2025 - January 2026

- Built and optimized user interfaces using Next.js, delivering **cleaner UI**, better **accessibility**, and improved site **performance**.
- Enhanced **SEO** and **page visibility** through structured layouts, optimized routing, and performance-focused frontend practices.

## SKILLS

**Programming Languages:** C++, JavaScript, TypeScript

**Frameworks & Libraries:** ReactJS, Next.js, Express.js, Redux, TailwindCSS, Socket.io

**Front-End:** HTML, CSS

**Database:** NoSQL (MongoDB), SQL (PostgreSQL), Redis (Caching)

**Concepts:** Data Structures and Algorithms, Operating Systems, OOPs.

**Cloud Platforms:** AWS (EC2)

**Tools:** Git, GitHub, Docker, Postman (API Testing)

**Soft Skills:** Communication, Problem-solving, Team Collaboration

## PROJECTS

### 1. GreenRide - [GitHub](#) | [Live](#)

**Technologies:** React, Tailwind CSS, Firebase, Node.js, Redis, 3rd Party APIs

- Enabled users to choose **healthier and eco-friendly routes** by computing AQI-aware path recommendations, improving daily commute safety.
- Built **scalable, high-availability backend services** for large-scale environmental data processing, achieving **99% uptime** and reducing API latency by **40%** through optimized calls and caching.
- Enhanced system **performance, reliability, and security** through robust **input validation, error handling, and intelligent caching**.

### 2. Vista - [GitHub](#) | [Live](#)

**Technologies:** Electron, React, Tailwind CSS, Node.js, PostgreSQL, JWT, MediaPipe

- Developed a full-stack performance monitoring system using **AI-based** activity detection and system-level monitoring.
- Built a privacy-first Electron desktop app with **on device AI Processing** and secure backend processing and daily data retention.
- Implemented role-based dashboards for **real-time** productivity and engagement analytics.

### 3. MediChain AI - [GitHub](#)

**Technologies:** React, Tailwind CSS, TensorFlow.js, Node.js, MongoDB, Solidity, Web3.js

- MediChain AI integrates AI-driven tools and blockchain to address challenges in the healthcare industry.
- Enabled **accurate early disease detection** by integrating a client-side **AI Symptom Checker** using TensorFlow.js, improving patient diagnostic efficiency.
- Implemented **secure blockchain-based insurance management** with Solidity and Web3.js, ensuring **immutable and transparent medical records**.

## ACHIEVEMENTS

- Currently ranked **2nd** on the **DSA** leaderboard on **GFG**.
- Ranked **15th** in JWOC 2025.
- Five** times Hackathon **Finalist**.
- Top 2** Hackathon Evangelist at Hack4Bengal season 4.
- Published a **research paper:** "*Machine Learning Application in Modern Agriculture Science*".