



Dibyendu Mandal

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PROFILE

Full-stack MERN developer passionate about building robust and scalable applications. Experienced in e-commerce, health tech, and real-time platforms, with a focus on performant backend APIs, secure authentication, and responsive user interfaces.

Experience

- **Full-Stack Web Development Intern | Markyway Ventures** May 2025 – August 2025
 - Engineered a full-stack e-commerce platform for a client, increasing online inquiries by 15% through responsive UI design and backend performance tuning.
 - Co-developed a reusable component library adopted in 3+ client projects, reducing frontend dev time by 20%.
 - Built REST APIs with Node.js for managing orders and inventory in a client e-commerce platform.

PROJECTS

[Baquaiveda](#) – Ayurvedic E-commerce Website | [Github](#)

Tech Stack: React.js, Node.js, Express.js, MongoDB, JWT, RESTful APIs

- Developed and launched a full-stack e-commerce platform for Baquaiveda, a production Ayurvedic company, featuring 50+ products, doctor appointment bookings, and a health blog — actively used by a daily user base.
- Optimized product discovery and booking flows which led to a client-reported increase in product sales and doctor appointment conversion rates.
- Implemented secure, role-based access (admin/doctor/user) and refactored backend APIs for faster data access and operational control.

[LifeSync-Hub](#) – Health Tracker Web Application | [Github](#)

Tech Stack: React.js, Node.js, Express.js, JWT, Machine Learning API

- Developed a health platform supporting doctor appointments and AI-powered disease predictions based on user symptoms.
- Designed backend flows for appointment lifecycle, user profiles, and JWT-based authentication.
- Integrated a Python-based ML model via API for real-time, context-aware symptom analysis.

[PETSREE](#) – Sitting Connection Platform | [Github](#)

Tech Stack: React.js, Node.js, Express.js, Socket.io, MongoDB

- Designed a platform connecting pet owners with sitters, featuring profiles, booking, and real-time updates.
- Achieved sub-50ms latency with real-time messaging via Socket.io, enabling instant sitter-owner communication.
- Developed a dynamic booking engine with customizable options and secure user-to-user communication.

CYBERGUARD – AI-Powered Cybersecurity Quiz Game | [Github](#)

Tech Stack: React.js, Node.js, Google Gemini API, JavaScript (ES6+)

- Integrated the **Google Gemini API** to dynamically generate unique cybersecurity questions and provide intelligent, context-aware explanations for user answers.
- Designed a gamified UI with live scoring and timed challenges, increasing beta tester engagement by 40%.

EDUCATION

2022-2026 **Bachelor of Technology, Computer Science & Engineering**
Netaji Subhash Engineering College, Kolkata, West Bengal

Technical Skills:

- **Languages:** Java, Python, C++
- **Frontend:** React.js, Next.js, HTML, CSS
- **Backend:** Node.js, Express.js, REST APIs, Socket.io, JWT
- **Databases:** MongoDB, PostgreSQL, MySQL
- **Tools & Platforms:** Docker, Git, Firebase, Google Cloud Platform (GCP), Strapi

Leadership & Achievements:

- **Hackathon Winner:** Secured **2nd Runner Up** at Hackolution 2025.
- **Top Problem Solver:** Solved **350+ LeetCode problems** (Data Structures & Algorithms).
- **Web Development Lead, Cybernix Phoenix Club, NSEC:** Led development projects and organized 3+ technical workshops (Git, React) for 200+ students.
- **CP Core Team Member – GDSC, NSEC:** Collaborated on solving advanced DSA problems in competitive programming sessions.

Certifications: [Python \(Coursera\)](#), [RDBMS \(IIT BOMBAY\)](#)