Debayudh Basu

debayudhbasu@gmail.com | LinkedIn | Portfolio/Website | Github

TECHNICAL SKILLS

Blockchain & Web3: Solidity, Move, Foundry, Hardhat, Wagmi, Ethers.js, Solana, Aptos, XMTP, IPFS
Frontend Architecture: React.js, Next.js (SSR/CSR), TypeScript, Tailwind CSS, Three.js, React Native
Backend & Systems: NestJS, Node.js, Express.js, Flask, PostgreSQL, MongoDB, Firebase, Supabase
DevOps & Tools: Docker, AWS, Azure, Git, Vercel, CI/CD Pipelines, AI/LLM Integration, TensorFlow

PROFESSIONAL EXPERIENCE

MERN and Web3 Intern
Stellar Code
Oct 2025 – Present
Remote

- Architecting automated liquidity management strategies using custom **Uniswap v4 hooks** to optimize capital efficiency.
- Deploying **ERC1967 proxy patterns** to establish upgradeable, gas-optimized smart contract infrastructure.
- Fortifying protocol security by strictly adhering to OpenZeppelin standards, mitigating reentrancy risks by 40%.

Backend Developer Intern
Logiclens Solution Limited
Aug 2024 – Jan 2025
Remote

- Orchestrated a high-throughput backend for an AI-powered CCTV system, utilizing **Node.js** event loops for concurrency.
- Slashed API latency by 40% via efficient payload management, enabling real-time threat detection across video feeds.
- Engineered a containerized microservices architecture to handle concurrent video streams with 99.9% uptime.

STARTUP VENTURE

Mediyaga - Health Frontier Protocol
Co-Founder & Technical Lead
Kolkata, India
Jan 2025 – Present

- Developing a decentralized health protocol utilizing **Computer Vision (OCR)** to parse prescriptions and automate dosage verification.
- Prototyping **IoT-integrated autonomous vending units** for 24/7 medicine dispensing, bridging digital diagnosis with physical fulfillment.
- Validated business viability by securing **Runners Up at B-Plan 2025**, demonstrating scalability in autonomous pharma-retail.

KEY PROJECTS

Dike Protocol | *Solidity, Foundry, Next.js, Wagmi* | Live Site — 2025

- Developed a decentralized prediction market leveraging **Paradigm's** research, implementing collateral-based chain extensions.
- Designed an event-driven architecture to execute leveraged positions and real-time crypto price feeds with sub-second finality.

DhanSetu - Paper Trading Platform | *Next.js Server, XMTP, MongoDB* | Client Project — 2025

- Architected a high-frequency trading engine using **Next.js Server Architecture**, handling concurrent execution with zero latency.
- Implemented atomic state management to synchronize real-time market data across the frontend interface without performance lag.
- Engineered secure user sessions and complex portfolio tracking logic within a unified, type-safe server-side framework.

Srijoni - Hospital Management | *NestJS, Next.js, TypeScript* | Client Project — 2025

- Built an enterprise-grade monolithic backend using **NestJS**, utilizing strict typing to manage sensitive patient records.
- Led full-stack integration in Next.js, implementing global state management for seamless data synchronization across modules.
- Designed Role-Based Access Control (RBAC) dashboards, ensuring HIPAA-compliant data privacy and efficient workflow.

BrainBoost | *Next.js, Firebase, Azure, Three.js* | Live Site — May 2025

- Architected a copyrighted AI learning assistant featuring interactive 3D labs and dynamic NLP-driven curriculum generation.
- Implemented granular security rules for managing distinct student/teacher portals and protecting proprietary content.

ACHIEVEMENTS & LEADERSHIP

- **Finalist:** ETHGlobal Delhi 2025
- **Winner:** ACM Eastern India Hackathon 2025
- **3rd Runner Up:** Build on Aptos Kolkata
- **Top 10:** Udyam Guwahati Hackathon
- **Lead:** Google Developer Group (GDG), RCCIIT
- **Winner:** TechTrek InnoVision 2024
- **Finalist:** Smart Bengal Hackathon 2024
- **Runners Up:** B-Plan 2025 (Mediyaga)

EDUCATION

RCC Institute of Information Technology
Bachelor of Technology in Computer Science
Kolkata, India
2023 – 2027