Debayudh Basu

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SUMMARY

I am a Web2 and Web3 developer with a passion for creating both traditional and decentralized applications. My expertise includes building user-friendly web interfaces using technologies like Next.js and React.js, as well as integrating blockchain solutions with Solidity, ethers.js, and web3.js. I've worked on projects such as NFT marketplaces, decentralized voting systems, and financial management platforms, where I leverage smart contracts and blockchain for secure and transparent functionality.

EDUCATION

RCC INSTITUTE OF INFORMATION TECHNOLOGY   Beliaghatia, Kolkata
B.tech   *2023 – 2027*

St.Stephen's School   11, Rishi Bankim Chandra Road
ISC   *2023 – 84.5%*

St.Stephen's School   11, Rishi Bankim Chandra Road
ICSE   *2021 – 87%*

EXPERIENCE

Freelance Frontend and Backend Developer   June 2024 – Present
Self-employed   *Remote*

- Developed responsive web applications for various clients using React.js, Next.js, and modern CSS frameworks
- Built robust backend solutions with Express.js, Flask, and MongoDB to support client applications
- Implemented payment gateways, authentication systems, and other critical functionalities for e-commerce platforms

- Created and integrated REST APIs for seamless communication between frontend and backend systems
- Delivered complete end-to-end solutions while maintaining regular communication with clients throughout project lifecycles

Blockchain and Cloud Igniter   October 2024 – Present
Unstop Igniters Club RCCIIT   *RCC INSTITUTE OF INFORMATION TECHNOLOGY*

- Selected as part of Unstop's Blockchain Igniter program to promote blockchain technology and education
- Organized workshops and knowledge-sharing sessions focused on blockchain fundamentals and development
- Developed demo applications showcasing blockchain use cases and implementation strategies
- Served as a Cloud Igniter to promote cloud computing technologies and best practices
- Conducted hands-on sessions demonstrating cloud deployment, scaling, and management techniques

Web and Web3 Associate   October 2024 – Present
GDG on Campus RCCIIT   *RCC INSTITUTE OF INFORMATION TECHNOLOGY*

- Selected as a Web and Web3 Associate for Google Developer Group (GDG) on campus (RCCIIT)
- Engaged in community discussions and stayed updated with the latest Web3 technologies and trends
- Collaborated with peers and mentors in planning potential events focused on Web and Web3 development
- Participated in knowledge-sharing sessions and contributed to GDG's learning ecosystem
- Assisted in initial preparation for community-driven activities and workshops

Backend Developer Intern   August 2024 – January 2025
Logiclens Solution Limited   *Remote*

- Developed and maintained the backend of an AI-powered CCTV system for real-time surveillance and threat detection
- Implemented APIs to process and analyze video feeds from multiple cameras for person detection, gender classification, and gesture recognition

PROJECTS

BrainBoost | *Next.js, React.js, Firebase, Azure, NLP* May 2025
- Developed an AI learning assistant with smart canvas features and 3D labs with AI generation and analysis capabilities
- Built both frontend and backend components focusing on the 3D labs implementation using Three.js and React Three Fiber
- Created question generation system that dynamically produces personalized learning material based on user progress
- Implemented comprehensive authentication system with role-based access control for students, teachers, and administrators
- Designed and integrated AI-powered content analysis tools that provide insights and learning recommendations

NF2Z | *Next.js, Solidity, ethers.js, web3.js* October 2024 – October 2024
- Built a decentralized NFT marketplace using Next.js for the frontend and Solidity smart contracts for managing NFT creation, listing, and transactions on the blockchain
- Designed and deployed smart contracts for minting, buying, selling, and transferring NFTs securely on the Ethereum network
- Integrated ethers.js and web3.js libraries to connect the frontend with the blockchain, enabling seamless interaction with smart contracts
- Implemented wallet integration using MetaMask for user authentication, asset management, and transaction execution
- Ensured a smooth user experience by enabling real-time updates for NFT listings, ownership, and transaction statuses

AIAX | *Next.js, MongoDB, ethers.js, CoinGecko API* September 2024 – September 2024
- Developed a financial management platform using Next.js and MongoDB to track and manage user budgets and transactions
- Integrated ethers.js to enable secure cryptocurrency transactions, including Ethereum-based payments and transfers
- Utilized CoinGecko API for real-time crypto price data and Gemini API for crypto exchange rates and market insights
- Implemented an AI-powered recommendation system to provide personalized financial assistance based on users' spending patterns and investment goals
- Enabled users to manage both fiat and crypto assets with comprehensive insights and automated recommendations for better financial decision-making

Paws | *React.js, Azure* February 2024 – April 2024
- Designed and developed the frontend of an NGO-based animal rescue web app using React.js for a seamless user experience
- Created intuitive interfaces for animal listings, rescue request forms, and volunteer signups
- Integrated with backend APIs to display real-time data on rescued animals and ongoing rescue operations
- Optimized the app for mobile responsiveness and ensured smooth navigation across various user flows
- Focused on accessibility and user-friendly design to cater to both volunteers and pet adopters

TECHNICAL SKILLS

Frontend: HTML, CSS, Javascript, React.js, Next.js
App Development: Flutter
Backend: Flask, Express.js, Django , Nest.js
DBMS: MongoDB, PostgreSQL , IPFS
Smart Contract Development: Solidity , Move
Blockchain Integration: ethers.js, web3.js , Wagmi

ACHIEVEMENTS

B-Plan 2025 Runners Up   April 2025
Organised by IIC Techno Main   *Salt Lake, Kolkata*

Winner at ACM Eastern India Hackathon   May 2025
Association for Computing Machinery   *Eastern India Chapter*

Winner at TechTrek InnoVision 2024   October 2024
Technical Fest   *RCC INSTITUTE OF INFORMATION TECHNOLOGY*

Finalist at Udyam Guwahati   January 2025
Startup India by IIC Council   *Guwahati*