

Suraj Chakraborty

Full-Stack Developer | Programmer | Web Designer

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Summary

Full-stack developer specializing in building scalable web applications, real-time systems, and AI-powered platforms using modern JavaScript frameworks. Strong focus on clean architecture, efficient backend microservices, and intuitive UI/UX design.

Technical Skills

Languages: JavaScript, TypeScript, Python, Rust

Frontend: React.js, Next.js, Tailwind CSS, Bootstrap, React Native

Backend: Node.js, Express.js, REST APIs, WebSocket

Databases: PostgreSQL, MongoDB, Firebase

DevOps & Tools: Git, GitHub Actions, Docker, CI/CD Pipelines

Experience

Freelance Full-Stack Developer (2022 - Present)

- Developed a doctor appointment system using PHP, MySQL, and JavaScript with geolocation-based doctor discovery within a 10 km radius.
Implemented slot booking, availability management, and real-time notifications using REST APIs with email/SMS integration (SMTP/Twilio).
 - Built a responsive e-commerce platform for a local business with product catalog, cart, and order management workflows.
Designed scalable backend APIs, integrated payment-ready architecture (Stripe-ready), and optimized UI/UX for performance and responsiveness.
 - Engineered an AI-based user verification system using WebRTC for live video capture, face detection (MediaPipe), and OCR (Tesseract.js) for ID extraction.
Developed real-time validation pipeline with backend verification logic to match user identity and ensure authenticity.
 - Built a collaborative cloud IDE platform with Docker-based isolated environments and real-time multi-user editing using Yjs and WebSocket.
Designed scalable backend with Node.js, GraphQL, and Socket.IO supporting chat, terminal sharing, and workspace collaboration.
Integrated WebRTC for voice/video communication and developed CLI agent for local environment hosting.
Implemented container lifecycle management, authentication, and role-based access for secure multi-user sessions.
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Key Projects

AI MCQ Test Platform

- Built AI-powered test system generating 1000+ MCQs with automated evaluation pipeline.
 - Implemented authentication, test tracking, and scalable backend APIs using Next.js and Node.js.
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DSA Visualizer

- Created interactive platform to visualize algorithms and data structures with real-time animations.
 - Helps users understand complex concepts like graphs, trees, and sorting through visual feedback.
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Education

Bachelor of Science (B.Sc)-Margherita College, Dibrugarh University-2018 – 2022
