

SANKHA SUBHRA DAS

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PROFESSIONAL SUMMARY

B.Tech Computer Science graduate (2025) and full-stack engineer with 1.5+ years of hands-on experience in React, Next.js, and Node.js. Proficient in RESTful API design, CI/CD pipelines, Docker containerization, AWS cloud infrastructure, observability tooling, and secure system design with JWT/OAuth and RBAC.

TECHNICAL SKILLS

Languages: JavaScript (ES6+), TypeScript, SQL, HTML5, CSS3 **Frontend:** React.js, Next.js (App Router), React Native, Tailwind CSS, ShadCN UI, Framer Motion

Backend: Node.js, Express.js, REST APIs, WebSockets, Socket.IO, Webhook Integration **Databases:** PostgreSQL, MongoDB, MySQL, Supabase

ORM & Auth: Prisma ORM, JWT, OAuth 2.0, bcrypt, HttpOnly Cookies, RBAC **Observability & Testing:** Prometheus, Grafana, Jest, Postman

DevOps & Cloud: Docker, GitHub Actions (CI/CD), AWS (EC2, S3), Nginx, Vercel, Render, Netlify **OS:** Linux, Windows

WORK EXPERIENCE

Front-End Developer Intern

Mar 2025 – May 2025

Alien Brains | Remote / Contract

- Architected modular React component libraries with route-based code splitting, reducing bundle size and improving page load performance by 30%.
- Built motion-rich UIs with Framer Motion and Three.js; enforced ARIA accessibility standards and reduced-motion fallbacks for inclusive user experience.
- Integrated REST APIs with centralized error handling, exponential retry logic, client-side caching, and optimistic UI updates to improve perceived responsiveness.

FULL-STACK PROJECTS

Smart Bookmark — Full-Stack SaaS Bookmark Platform | *Live*

2026

- Built a mono-repo SaaS with dedicated client and admin apps using Next.js 14 (App Router), TypeScript, Tailwind CSS, and ShadCN UI; backend powered by Supabase with Auth, RLS, and Realtime subscriptions.
- Implemented secure admin flow (bcrypt/JWT), granular RBAC, production-grade RLS policies, API rate limiting, real-time sync, and an admin analytics dashboard for platform monitoring.

Papery — Research Paper Tracking & Management | *Live* | *GitHub*

2026

- Developed a full-stack research paper management system for organizing, filtering, and tracking academic papers; built with React, TypeScript, and a clean responsive component architecture.
- Implemented secure REST APIs using Node.js/Express, PostgreSQL (Supabase) with Prisma ORM for type-safe data access; deployed frontend on Vercel and backend on Render with CI/CD integration.

MedicoX — Full-Stack Healthcare Platform | *Live*

2025

- Built appointment booking, EHR uploads, Razorpay payments, and notifications with RBAC for patients, doctors, and admins using React and Node.js architecture with Dockerized services.
- Implemented real-time booking via Socket.IO, background workers, Nginx reverse proxy, and CI-driven AWS EC2 deployments via GitHub Actions.

LogScope — Distributed Log Ingestion & Observability | *GitHub*

2026

- Built a high-throughput log ingestion API with structured logs, severity filtering, and ISO-8601 timestamp-based queries; containerized with Docker Compose, fronted by Nginx, and tested with Jest.
- Instrumented for Prometheus/Grafana metrics-driven observability and prepared for autoscaling in distributed environments.

BhaktaSanmilani — Secure Donation Platform | *Live*

2025

- Delivered a Razorpay-integrated donation platform with webhook verification, real-time tracking, and an admin analytics dashboard for a live community organization.
- Hardened security with HttpOnly JWT auth, API rate limiting, CSRF-safe endpoints, and secure HTTP headers — following OWASP Top 10 best practices.

SignalHub — Unified Customer Outreach Platform | *In Progress*

2025

- Engineering a multi-channel unified inbox for SMS, WhatsApp, email, and webchat with Next.js App Router, TypeScript, PostgreSQL (Prisma), and Twilio webhooks; features include thread normalization, scheduling, and analytics.

EDUCATION

Bachelor of Technology in Computer Science & Engineering

Aug 2021 – May 2025

University of Engineering & Management (UEM), Kolkata