Sankha Subhra Das

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Summary

B.Tech (2025) full-stack developer 1.5 years of hands on experience in React/Node.js production stacks, containerized delivery (Docker), CI/CD automation, AWS deployments, and monitoring (Prometheus/Grafana). Pragmatic about observability, security and operational reliability.

Technical Skills

Languages: JavaScript (ES6), TypeScript, SQL   **Frameworks:** React, Next.js, React Native (Expo), Express, Redux   **Frontend:** Tailwind, CSS/SCSS   **Databases:** MongoDB, MySQL, PostgreSQL
DevOps / Infra: Docker, Docker Compose, GitHub Actions, AWS (EC2, S3), Nginx   **Monitoring:** Prometheus, Grafana
Security/Tools: JWT, OAuth, HTTPS, Git, Postman   **OS:** Linux, Windows

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Experience

Front-End Developer Intern — Alien Brains   1 Mar 2025 – 31 May 2025
Remote / Contract

- **Architecture & components:** Designed a modular React frontend with reusable atomic components, consistent state patterns and route-based code-splitting to reduce bundle size and speed Time-to-Interactive.
- **Interactive UI & accessibility:** Implemented motion and selective 3D visuals (Framer Motion, Three.js) with prefers-reduced-motion fallbacks and ARIA-compliant semantics for forms/modals.
- **API resilience:** Integrated REST APIs with axios, adding retry/backoff, caching, centralized error UI and optimistic updates to improve UX under intermittent network conditions.

Personal Projects and Freelance

MedicoX — Full-Stack Healthcare Appointment Platform (Live | Source)   2025

- Built a production-grade healthcare system for appointments, EHR uploads, payments, notifications, and analytics with strong focus on RBAC, privacy-by-design, and operational reliability.
- Implemented React + Node/Express architecture with MongoDB, S3-compatible storage, Nginx reverse proxy, Dockerized services, and CI-driven AWS EC2 deployments.
- Designed secure auth (JWT, OAuth, RBAC), real-time booking with conflict resolution via Socket.IO, background workers for reminders, and full observability using Prometheus, Grafana, and GitHub Actions.

SignalHub — Unified Multi-Channel Customer Outreach (Under Development)   2025

- Developing a unified inbox platform aggregating SMS, WhatsApp, email, and web chat into per-contact conversation threads with scheduling, team collaboration, and analytics.
- Stack includes Next.js (App Router), TypeScript, PostgreSQL (Prisma), Twilio webhooks, SMTP-based email delivery, secure API design, and background queues for reliable message processing.

Bardhaman BhaktaSanmilani — Secure Donation & Temple Management Platform (Live)   2025

- Delivered a live donation platform with Razorpay payments, webhook verification, automated receipts, and an admin dashboard for search, analytics, and financial reporting.
- Built as a Next.js + TypeScript full-stack app with PostgreSQL, JWT-based admin auth (HttpOnly cookies), and hardened security including rate limiting, CSRF-safe APIs, and secure HTTP headers.
- Implemented environment-isolated configs (test/live),idempotent payment handling, audit-friendly exports, and defensive logging for production reliability.

Education

B.Tech, Computer Science — UEM Kolkata   Aug 2021 – May 2025