

Swarnabha Banerjee

swarnabhab2006@gmail.com | +91-9732854800 | Kolkata, West Bengal, India | [Portfolio](#) | [GitHub](#) | [LinkedIn](#)

Full-stack developer with 1 year of hands-on experience building and deploying web applications, with a focus on turning ideas into functional, well-structured products. Comfortable working across the development lifecycle, from shaping application requirements and interfaces to implementation, debugging, and refinement. Currently seeking software engineering internships and freelance opportunities to build practical products and contribute to real-world development work.

TECHNICAL SKILLS

Languages : JavaScript

Frontend : Next.js, React, Tailwind CSS, shadcn/ui, Framer Motion, Recharts, Tiptap

Backend : Node.js, Express.js, Next.js API Routes

Authentication & Email : NextAuth.js, Resend, Mailtrap

Database & Storage : MongoDB, Mongoose, Supabase

Real-Time & Background Jobs : Redis, BullMQ, Server-Sent Events (SSE)

Tools : Git, GitHub, Postman

PROJECTS

StoryHub – A production-oriented full-stack blogging platform built with Next.js, focused on scalable architecture, real-time interactions, and modern user experience.

[Live Demo](#) | [GitHub Repo](#)

- Built a full-featured content management system with post CRUD, rich-text editing via Tiptap, autosave, soft deletion, slug-based URLs, and separate draft, published, and scheduled post workflows.
- Implemented a recursive comments system supporting full CRUD, deeply nested replies, and highlight-and-scroll interactions for improved discussion navigation.
- Engineered authentication and authorization with ownership validation and secure media access using signed URLs through Supabase.
- Developed post engagement features including likes and bookmarks, with a personalized library for managing liked and bookmarked stories.
- Built a social graph with follow/unfollow functionality, followers/following lists, suggested users, and mutual connection discovery.
- Implemented full-text search across users and posts to support fast content and user discovery.
- Built a real-time notification system using Server-Sent Events (SSE), complemented by batched digest emails for efficient notification delivery.
- Engineered a unified activity feed covering follows, likes, comments, replies, and comment likes, with aggregation of high-frequency interactions to reduce feed noise and improve performance.
- Developed a creator analytics dashboard with engagement trends, audience insights, top-performing posts, and detailed per-post metrics for views, likes, comments, and activity.
- Implemented scheduled publishing with custom date/time scheduling, rescheduling and cancellation, timezone-safe execution, and automated background publishing through a secure endpoint.
- Designed responsive loading states and animated route transitions to improve perceived performance and overall application experience.

EXPERIENCE

Independent Full-Stack Developer

Personal Software Projects | 2025 – Present

- Independently designed, developed, deployed, and iterated on full-stack web applications, taking ownership of the development lifecycle from architecture and implementation to testing, debugging, and production deployment.
- Applied software engineering practices including modular component design, API-driven architecture, authentication and authorization, data modeling, and secure handling of application data.
- Diagnosed and resolved application, performance, and integration issues through iterative testing and debugging, while continuously improving code structure, usability, and maintainability.
- Designed and refined a personal developer portfolio alongside application projects, translating design concepts into maintainable interfaces while iterating on interaction patterns, navigation flows, and visual hierarchy.

Sponsorship & Outreach Coordinator

College Cultural Fest Organizing Committee | 2025 – Present

- Communicated with brands and business representatives to explore sponsorship and partnership opportunities for college cultural events, handling professional outreach, follow-ups, and relationship management.
- Secured a local business/merchandise partner as a fest stall partner and supported coordination between the business and organizing committee.

EDUCATION

Techno India University | 2024 – 2028

Bachelor of Computer Applications (Honours)

ADDITIONAL INFORMATION

- **Languages** : English, Bengali, Hindi
- **Career Interests** : Full-Stack Web Development, AI-Powered Applications & AI Integration, Freelance Full-Stack Development, Software Engineering Internships