Tushar Kanti Dey

Full-Stack Software Engineer — Building Scalable Digital Systems

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Professional Summary

Computer Science undergraduate driven by systems thinking and product execution. Strong foundation in data structures and backend architecture with hands-on experience building scalable, production-ready web and mobile applications. Focused on writing clean, maintainable code while designing secure authentication flows, optimized data models, and responsive user interfaces.

Core Competencies

Frontend Engineering	Next.js, React.js, Tailwind CSS, TypeScript, Responsive Systems, Framer Motion	**Backend Engineering**	Node.js, NestJS, Express.js, REST API Design, Authentication Systems
Data & Storage	PostgreSQL, Supabase, MongoDB, Redis, NeonDB	**Computer Science Fundamentals**	Data Structures, Algorithms, OOP, DBMS, Operating Systems
Mobile Development	React Native, Expo, Performance Optimization	**Engineering Tools**	Git, GitHub, Docker, CI/CD, Vercel

Signature Projects

Taskhub – Task Management Web Application

Overview: Engineered a clean, responsive task management platform enabling users to create, track, and manage workflows efficiently.

Key Contributions:
- Architected a complete CRUD system with structured state management.
- Designed modular React components to ensure scalability and maintainability.
- Implemented responsive layouts with Tailwind CSS for cross-device consistency.
- Deployed to production on Vercel with optimized build configuration.

Tech Stack: Next.js, React, Tailwind CSS, Vercel.

Live Demo: taskhub-drab.vercel.app

Signifiya – Mobile Application

Overview: Developed a performance-optimized mobile application emphasizing smooth UI transitions and efficient resource handling.

Key Contributions:
- Refactored component structure to minimize re-renders and improve runtime efficiency.
- Reduced application bundle size through media compression and asset optimization.
- Integrated secure REST APIs with environment-based configuration management.
- Managed Android release builds and deployment pipeline.

Tech Stack: React Native, Expo, Supabase, REST APIs.

Fenix – Real-Time Video Calling Platform
Overview: Built a secure real-time communication platform enabling dynamic meeting creation and peer-to-peer video interaction.
Key Contributions:
○ Integrated LiveKit WebRTC infrastructure for real-time video and audio streaming.
○ Designed secure authentication and session management using Clerk.
○ Implemented dynamic meeting room generation with unique session identifiers.
○ Structured responsive UI layers ensuring consistent cross-device usability.
Tech Stack: Next.js, Tailwind CSS, LiveKit, Clerk, Vercel.
Live Preview: fenix-ecru.vercel.app

Education

2023–Present **B.Tech in Computer Science Engineering**, *Adamas University*, Kolkata, India

Key Strengths

○ Strong analytical thinking with focus on time and space complexity.

○ Experience designing modular, scalable full-stack architectures.

○ Clear understanding of relational database modeling and API workflows.

○ Consistent contributor to GitHub with production-oriented engineering projects.