

Pulak Sen

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🔗 github

Education

South Asian University, New Delhi	🔗, M.Sc. in Computer Science	August 2021 – June 2023
• GPA: 5.85/9		
• Coursework: Computer Organization and Design, Mathematical Foundations of Computer Science, Blockchain Technology, Cryptography and Network Security, Theory of Computation, Design and Analysis of Algorithms, IoT		
A.P.C Roy Govt. College, Siliguri	🔗, B.Sc. in Computer Science	July 2018 – August 2021
• GPA: 8.57/10		
• Coursework: Discrete Structures, Software Engineering, Programming Fundamentals using C, Programming in JAVA, Data Structure, Operating System, Networking, DBMS, Computer System Architecture, Numerical Method		

Projects

School Management System	Source code	🔗	Live Demo	🔗
• Architected a robust school management solution with a modular, role-based access control system , enabling secure authentication for admins, teachers, students, and parents via Clerk and JWT session management .				
– Engineered an interactive admin dashboard with data visualization widgets for student demographics, attendance tracking, announcement management, and event scheduling using advanced React component patterns.				
– Integrated RESTful APIs and Prisma ORM for efficient CRUD operations on users, classes, exams, lessons, and real-time updates, ensuring data integrity and optimal system scalability.				
• Tools and stack: Next.js 15, React, TypeScript, Clerk, Prisma, Zod (form validation), Tailwind CSS.				
Doctor Appointment Booking System	Source code	🔗	Live Demo	🔗
• A full-stack web application built with Next.js , TypeScript , and Appwrite that allows patients to request appointments with doctors and admins can manage, schedule, or cancel requests with real-time data updates				
– Patients can fill in detailed personal, medical, and contact information, upload identity proof, and choose a preferred doctor and appointment date.				
– Admins dashboard showing recent appointments and counts of pending, scheduled, and cancelled bookings.				
• Tools used: Next.js 15, React, TypeScript, Tailwind CSS, ShadCN UI, Appwrite, Zod (form validation).				
Collaborative White Board	Source code	🔗	Live Demo	🔗
• Developed a real-time collaborative whiteboard application using Next.js , Clerk , and Convex . The platform allows teams to draw, create sticky notes, and collaborate visually with secure authentication and instant update.				
– Implemented multiplayer presence with live cursors and real-time board synchronization.				
– Built a responsive UI featuring toolbars, shape tools, and modals with Tailwind CSS.				
• Tools used: Next.js 15, React, TypeScript, Shadcn, Clerk, Convex, Liveblocks, Tailwind CSS				

Skills

Languages: JavaScript, TypeScript, C, Java, SQL

Framework/Library: React.js, Next.js, Prisma, Node.js, Express.js, Redux Toolkit, Axios, Tailwind CSS

API Integration: RESTful APIs (Axios, Fetch)

Database: MySQL, PostgreSQL (Neon)

Version Control: Git, GitHub