

# 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 to 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 Broad** 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