

Pulak Sen

📍 Siliguri, India | ✉ pulaksen.dev@gmail.com | 📞 8116747805 | 🌐 Portfolio | 🔗 linkedin | 🐙 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

Awards and Honors

- **President's Scholarship:** Awarded for M.Sc. course at South Asian University, securing the top position in the entrance examination test. View Certificate 📄
- Secured **2nd position in Long Jump** at the Annual Sports Meet, South Asian University. View Certificate 📄

Projects

Chatify [Source code](#) 📄 Live Demo 📄

- Chatify is a full-stack, real-time communication platform built using the **MERN stack and Socket.io**. The application features secure user authentication, private real-time messaging with image support via **Cloudinary**.
 - Implemented secure **JWT-based authentication** and custom middleware to protect RESTful API endpoints and WebSocket connections.
 - Engineered real-time features including **online/offline status tracking** and notification audio alerts.
- Tools used: React 19, Node.js, Express, MongoDB, Socket.io, Zustand, Cloudinary, DaisyUI, Tailwind CSS.

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, and event scheduling, utilizing advanced React component patterns.
 - RESTful APIs and Prisma ORM to enable efficient CRUD operations, ensure data integrity, and scalability.
- Tools and stack: Next.js 15, React, TypeScript, Clerk, Prisma, Neon, 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
 - Allows patients to submit personal and medical details, upload ID proof, and select a preferred doctor.
 - Admins dashboard showing recent appointments and counts of pending, scheduled, and cancelled bookings.
- Tools used: Next.js 15, React, TypeScript, ShadCN UI, Appwrite, Zod (form validation), Tailwind CSS.

Skills

Languages: JavaScript, TypeScript, Python, C, Java, SQL

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

API Integration: RESTful APIs (Axios, Fetch)

Database: MySQL, PostgreSQL (Neon), MongoDB

Version Control: Git, GitHub