

# Pulak Sen

♥ Siliguri, WestBengal, 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

- 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, 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, 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.
  - 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