

# PRAJAKTA SARKHEL

CSE Undergrad | Aspiring Software Developer

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Portfolio

## EDUCATION

### ASANSOL ENGINEERING COLLEGE (MAKAUT), WEST BENGAL, INDIA

Bachelor of Technology in Computer Science & Engineering

2024 - 2028

CGPA (1st year)- 8.68

### AUXILIUM CONVENT SCHOOL (ISC), WEST BENGAL, INDIA

Higher Secondary Education

2021 - 2023

Score: 92.25%

### MOUNT CARMEL SCHOOL (ICSE), JHARKHAND, INDIA

Secondary Education

2009 - 2021

Score: 96.4%

## PROJECTS

### Eunoia | HTML5, CSS3, JavaScript, Web Audio API

May 2025 - June 2025

- Built a research-inspired mental wellness web application focusing on UI mode impact
- Designed responsive interfaces with persistent user preferences
- Explored mood-based interactions to enhance usability

### PosturePro | IoT, Hardware Integration

July 2025 - Sept 2025

- Led development of an IoT-based posture monitoring prototype integrating hardware and system design
- Presented solution architecture at TSEC 2025, IIM Calcutta
- Focused on real-world usability and system feasibility

## RESEARCH PUBLICATIONS

### An Insight into Impact of Dark Mode on Energy Conservation Across Devices

February 2025

National Conference on Communication, Computing and IoT (NCCCI-2025)

### The Role of Stimuli-Responsive Materials for Biomedical Challenges

September 2025

AICTE - VAANI Conference | Utilized AI-assisted visualizations for data representation

## TECHNICAL SKILLS

**Programming Languages:** C, C++, Python, JavaScript, Java

**Web Technologies:** HTML5, CSS3, Tailwind CSS, JavaScript, ReactJs

**Tools & Platforms:** Git, GitHub, Vercel, Figma

**Currently Learning:** Node.js, MongoDB, Next.js, TypeScript, SQL

**Core Competencies:** Data Structures & Algorithms, Problem Solving, Technical Writing, UI/UX Design

## COURSEWORK AND ACHIEVEMENTS

- Core Subjects:** Data Structures and Algorithms, Design Analysis and Algorithms, Computer Organization and Architecture, Object Oriented Programming, DBMS.
- Presented **PosturePro at TSEC 2025, IIM Calcutta** as **Team Lead**.
- Published **2 research papers in national-level conferences**.
- Solved **100+ problems on LeetCode** with consistent practice in Data Structures and Algorithms.
- Contributed to **Hacktoberfest 2024** with 4 merged pull requests in open-source projects.
- Participated in **8-hour offline hackathon**, developing and submitting a functional project prototype.
- Demonstrated **leadership** through **team coordination** and event organization in **academic** and **technical settings**
  - Management Lead** - Development Society, AEC (Feb 2025 - Dec 2025)
  - Core Committee** - Rhetoric Circle, AEC (Apr 2025 - Present)
- Pursuing **Bachelor's in Fine Arts** from **Bangiya Sangeet Parishad (affiliated to Rabindra Bharati University)**, demonstrating creative thinking and design sensibility alongside technical expertise.