

# PRAJAKTA SARKHEL

Software Developer

+91 9471715055

prajaktasarkhel@gmail.com

linkedin.com/in/prajakta-sarkhel

github.com/PrajaktaSarkhel

Portfolio

## EDUCATION

### ASANSOL ENGINEERING COLLEGE, WEST BENGAL, INDIA

Bachelor of Technology in Computer Science & Engineering

2024 – 2028

SGPA - 8.68

### AUXILIUM CONVENT SCHOOL, WEST BENGAL, INDIA

Higher Secondary Education

2021 – 2023

Score: 92.25%

### MOUNT CARMEL SCHOOL, JHARKHAND, INDIA

Secondary Education

2009 – 2021

Score: 96.4%

## PROJECTS

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

May 2025 – June 2025

- Built a mental wellness application, generates mood-based audio tones using Web Audio API.
- Implemented responsive design, local storage for preferences, interactive timers, dynamic state management.

### PosturePro | IoT, Hardware Integration

July 2025 – Sept 2025

- Developed IoT-enabled posture correction system designed for real-time BLE notifications to smartphones and smartwatches.
- Led team presentation at TSEC 2025, IIM Calcutta, showcasing hardware prototype and system architecture (September 2025).

## 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-generated visualizations for data representation

## TECHNICAL SKILLS

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

**Web Technologies:** HTML5, CSS3, Tailwind CSS, JavaScript (ES6+), ReactJs

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

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

**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.
- Held **leadership positions** organizing and managing multiple technical and cultural events.
  - 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.