

PRAJAKTA SARKHEL

Software Developer

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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

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

February 2025

The Role of Stimuli-Responsive Materials for Biomedical Challenges

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

September 2025

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.