

Asmita Bag

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PROFILE

A dedicated and enthusiastic Information Technology undergraduate with strong programming, web development and IoT experience. Keen to apply academic knowledge and hands-on project skills to real-world technical challenges in a growth-oriented organization.

TECHNICAL SKILLS

- **Programming Languages:** C, Java, Python, JavaScript (Beginner)
 - **Database:** MySQL, Oracle
 - **Web Technologies:** HTML, CSS, PHP
 - **Tools / Frameworks:** Eclipse IDE, Visual Studio Code, Dev C++, Python IDLE, JDBC
 - **Concepts:** Data Structures & Algorithms, OOP, SDLC, Agile/Scrum
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INTERNSHIP

IBM SkillsBuild Internship

June 2024 – August 2024

- Front-end web development tasks: built responsive UI components and collaborated on design reviews.
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PROJECTS

Air Pollution Monitoring System (Group)

GitHub

- Built an IoT-enabled sensor network (MQ-135) and microcontroller (Arduino) to capture PM2.5, CO₂ and temperature.
- Developed a Node.js backend to ingest sensor data and a React front-end dashboard for real-time visualization.

Smart Farming with Auto Pumping System (Group)

GitHub

- Implemented soil moisture sensing (capacitive probes) and automated water pump control via Raspberry Pi GPIO.
- Wrote a Python Flask API to manage irrigation schedules and log moisture trends for farmers.

Personal Portfolio Website

GitHub

- Designed a fully responsive site with HTML5, CSS3 (Flexbox/Grid) and vanilla JavaScript.
- Added smooth scroll animations and a dark-mode toggle; deployed on GitHub Pages.

GraphQL Library System (add/update books and authors only)

GitHub

- Created a React + Apollo Client UI and a Node.js GraphQL server for managing authors/books.
 - Enabled CRUD operations and real-time cache updates for seamless user experience.
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EDUCATION

- **B. Tech. in Information Technology**, University of Calcutta Oct 2023 – 2026(Expected)
CGPA: 8.888
 - **B.Sc. (Hons) in Computer Science**, University of Calcutta Aug 2020 – Aug 2023
CGPA: 8.888
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SOFT SKILLS

Problem solving | Team collaboration | Time management | Attention to detail |
Adaptability