

# SUBRATA BAG

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## SUMMARY

Motivated and technically strong 3rd-year Computer Science student with a CGPA of 7.86, passionate about solving real-world problems through software. Proficient in full-stack web development with expertise in JavaScript, React, Node.js, and MongoDB. Experienced in building scalable and user-friendly applications, with a solid foundation in data structures, algorithms, and system design. Adept at fast learning, collaborative development, and delivering impactful solutions. Seeking to leverage skills and curiosity as a Software Engineer Intern at Microsoft to contribute meaningfully and grow alongside industry leaders.

## Achievements / Hackathons

### Finalist – Hack-O-NIT

Feb 2025

- Selected among top finalists for developing **MediCon**.
- Demonstrated live sensor data collection, AI-driven advice engine, and emergency SOS feature.
- Praised for innovation in healthcare tech and real-world impact.

### 3rd Rank – Tech Expo

May 2025

- Received the **Best Innovation Idea Award** for solving real-world healthcare challenges.
- Appreciated by jury for combining hardware, software, and user-centric design in a single platform.
- Demonstrated exceptional teamwork, problem-solving, and dedication throughout the event.

## PROJECTS

### MediCon – IoT-Based Smart Health & Appointment System

Team Lead | Jan – May 2025

- Built a full-stack healthcare platform integrating ESP32-based sensors for real-time monitoring.
- Developed appointment booking, doctor approval, AI chatbot, and video consultation features.
- Designed emergency SOS alert system for instant medical response and remote diagnostics.
- Deployed backend on Render, frontend on Vercel - [Live Demo](#)

### Soumili\_Robo – AI-Powered Personal Assistant Robot

Solo | Feb - March 2025

- Built a Python-based voice assistant for desktop tasks.
- Added speech control, storytelling, and offline features.
- Source on GitHub – [View Project](#)

## TECHNICAL SKILLS

- Languages:** Python, C, Java, JavaScript, HTML/CSS
- Web Development:** React.js, Next.js, Node.js, Express.js
- Tools:** Github, Git, Postman, Chrome DevTools, VS Code, Visual Studio.
- Libraries:** Pandas, NumPy, Matplotlib, TensorFlow
- Core CS Concepts:** DSA, OOP, OS, DBMS, CN, ACA

## EDUCATION

### Bachelor of Technology

Sep 2023 - Sep 2027

CALCUTTA INSTITUTE OF TECHNOLOGY

- Computer Science and Engineering

## ADDITIONAL INFORMATION

- Languages:** English, Hindi, Bengali.