

# 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

<b>Finalist – Hack-O-NIT</b>	<b>Feb 2025</b>
<ul style="list-style-type: none"><li>Selected among top finalists for developing <b>MediCon</b>.</li><li>Demonstrated live sensor data collection, AI-driven advice engine, and emergency SOS feature.</li><li>Praised for innovation in healthcare tech and real-world impact.</li></ul>	
<b>3rd Rank – Tech Expo</b>	<b>May 2025</b>
<ul style="list-style-type: none"><li>Received the <b>Best Innovation Idea Award</b> for solving real-world healthcare challenges.</li><li>Appreciated by jury for combining hardware, software, and user-centric design in a single platform.</li><li>Demonstrated exceptional teamwork, problem-solving, and dedication throughout the event.</li></ul>	

## PROJECTS

<b>MediCon – IoT-Based Smart Health &amp; Appointment System</b>	<i>Team Lead   Jan – May 2025</i>
<ul style="list-style-type: none"><li>Built a full-stack healthcare platform integrating ESP32-based sensors for real-time monitoring.</li><li>Developed appointment booking, doctor approval, AI chatbot, and video consultation features.</li><li>Designed emergency SOS alert system for instant medical response and remote diagnostics.</li><li>Deployed backend on Render, frontend on Vercel - <a href="#">Live Demo</a></li></ul>	
<b>Soumili_Robo – AI-Powered Personal Assistant Robot</b>	<i>Solo   Feb - March 2025</i>
<ul style="list-style-type: none"><li>Built a Python-based voice assistant for desktop tasks.</li><li>Added speech control, storytelling, and offline features.</li><li>Source on GitHub – <a href="#">View Project</a></li></ul>	

## TECHNICAL SKILLS

<ul style="list-style-type: none"><li><b>Languages:</b> Python, C, Java, JavaScript, HTML/CSS</li><li><b>Web Development:</b> React.js, Next.js, Node.js, Express.js</li><li><b>Tools:</b> Github, Git, Postman, Chrome DevTools, VS Code, Visual Studio.</li><li><b>Libraries:</b> Pandas, NumPy, Matplotlib, TensorFlow</li><li><b>Core CS Concepts:</b> DSA, OOP, OS, DBMS, CN, ACA</li></ul>
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## EDUCATION

<b>Bachelor of Technology</b>	<b>Sep 2023 - Sep 2027</b>
CALCUTTA INSTITUTE OF TECHNOLOGY	
<ul style="list-style-type: none"><li>Computer Science and Engineering</li></ul>	

## ADDITIONAL INFORMATION

<ul style="list-style-type: none"><li><b>Languages:</b> English, Hindi, Bengali.</li></ul>
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