

AAYUSH SINHA

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Education

Narula Institute of Technology Bachelor of Technology - CGPA:7.90/10 [Till 5th Sem]	2022 – 2026 Kolkata, WB
Indian Public School Class XII - CBSE	2020 – 2022 Purnea, Bihar
SR DAV Public School Class X - CBSE	2019 – 2020 Purnea, Bihar

Experience

Java Intern <i>Remote</i>	Infosys Springboard <i>November 2024 – January 2025</i>
<ul style="list-style-type: none">Developed a booking system using Java to automate gas cylinder reservations with business rules.Used JDBC and MySQL to handle customer data, booking history, and billing records efficiently.Implemented logic to auto-generate bills with surcharge calculations for excess bookings (20% extra).Enabled dynamic payment mode updates for confirmed bookings.Applied OOP concepts to build clean, modular backend code for real-world operations.	

Projects

- Invoice Management System**
- Developed an invoice generation web app with real-time form handling and PDF export features.
 - Added secure user login and image storage for managing invoice records efficiently.
 - Tech Stack: React.js, Bootstrap, Spring Boot, MongoDB Clerk, jsPD.
- Car Accident Detection & Alert System**
- Designed a system to detect car collisions and alert the nearest police station and hospital in real time.
 - Reduced emergency response delays by integrating location tracking and automated notifications.
 - Tools Used: Java, Python, MySQL, GPS module, messaging API (Twilio).

Technical Skills

- Languages:** Java, HTML, CSS, SQL
- Frameworks/Libraries:** React.js
- Databases:** MySQL, SQLite, MongoDB
- Tools:** Git, VS Code, GitHub, IntelliJ IDEA
- Soft Skills:** Problem-Solving, Self-learning, Adaptability, Time-Management

Coursework

- Data Structures and Algorithms
- Object-Oriented Programming
- Database Management Systems(DBMS)

Achievements

- Smart Bengal Hackathon 2024 – Finalist (Team of 6):** Contributed to "Road Saviour", an IoT-based accident detection system. Selected among 500+ teams for the final round.
- NSS Waste Management Competition 2024 – 1st Position (Team of 4):** Designed an automated smart dustbin to detect wet and dry waste and open the appropriate flap for disposal, improving waste collection efficiency by 40% using sensor-based detection.
- Problem Solving:** Solved 200+ coding problems on platforms like GeeksforGeeks, HackerRank, etc.

Extra-Curricular Activities

- Bhumi NGO Volunteer:** Cleaned the Hooghly Ghats as part of a river-cleaning drive to promote environmental awareness.
- Inter-College Cricket Tournament:** Led a team of 20 members, managing coordination, scheduling, and strategy throughout the event.