SOUMEN MISHRA



Aspiring Software Developer | IT Student

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Summary

IT student with hands-on experience in Java, JavaScript, Flutter, and the MERN stack. Completed impactful internships and built real world projects, delivered air quality forecasting and vehicle rental platforms for hackathons, alongside IoT monitoring systems during internships. Continuously developing strong, industry-relevant software skills.

Education

Diploma in Information Technology Engineering – WBSCTVESD, *2025*

- Achieving 68% overall with coursework in Data Structures, Computer Networking, and Database Systems.
- Completed projects applying object-oriented programming and SDLC principles to develop scalable software solutions.

Secondary (Madhyamik) – WBBSE, *2022*

- With 69.8% overall, focusing on Mathematics and Physical Science to build foundation in Engineering.

Technical Skills

Programming Languages:	**Java, JavaScript, C++, Dart, SQL, HTML, CSS**
Tools:	**Git, VS Code, Android Studio, Arduino IDE, Postman**
Frameworks & Libraries:	**Flutter, React.js, Express.js, Node.js**
Databases:	**MongoDB, MySQL**
Concepts:	**OOP, SDLC, RESTful APIs, Agile, IoT, Machine Learning**

Projects

AQI Forecasting Platform – Bharatiya Antariksh Hackathon, ISRO, *Jul 2025*

- Developed a MERN stack website integrating Leaflet.js to retrieve and visualize air quality data from NASA, CPCB, and ISRO for real-time monitoring across India.
- Implemented a Python-based ML model with clustering algorithm to forecast AQI and generate nationwide air quality maps, enhancing data accuracy.

Vehicle Rental Platform – Web Dev Hackathon, unstop, *Jul 2025*

- Built a MERN stack platform with Leaflet.js for user account creation and location based vehicle rental search, with real-time availability updates on Map.
- Designed responsive user interface optimized for desktop and mobile devices, ensuring seamless navigation and efficient rental processing.

Anti-Collision Car Controlled by Android App – WBSCTVESD, *May 2024*

- Created an Android application using Java/XML and a Microcontroller based Car prototype, integrating ultrasonic sensors to reduce collision, in a 5-member team.
- Optimized Embedded C code in Arduino IDE to minimize communication latency by 25%, ensuring real-time sensor data processing and response.

Experiences

Industrial Internet of Things Intern – NSIC, MSME, *Aug 2025*

- Designed IoT solutions using MCU, software platform, multiple sensor and actuators for real-time environmental data monitoring.
- Integrated spectrometer sensors to collect environmental data, improving measurement accuracy by 15%.

Full Stack Web Development Intern – NSIC, MSME, *Aug 2024*

- Developed full-stack applications using MERN Stack, enabling real-time data synchronization.
- Refactored code to reduce bugs by 15% and implemented RESTful APIs, improving application response times by 20% for

Web Development Intern – Ardent Computech Pvt. Ltd, *Sep 2023*

- Built web applications using HTML, CSS, JavaScript, and MySQL, with efficient content delivery and robust database integration.
- Resolved 10+ critical issues, reducing functional errors by 20% and improving interface responsiveness for enhanced usability.

Achievements

Entrepreneurship Development Programme – WBSCT, PBSSD, *Feb 2025*

- Credential ID: (WB2025/MEP/2023/ENDP/258/00399).

Intra College Model Competition, TECHNOVA – CTS, *May 2025*

- Constructed a technical model in a 4-member team, presented 200+ attendees.