ARPAN DEY

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SUMMARY

A third-year Information Technology student with strong skills in Java, C, and C++ with hands-on experience in Object-Oriented Programming and Data Structures & Algorithms. Familiar with core CS subjects and currently learning full-stack web development using the MERN stack. Eager to contribute to real-world projects as a Software Engineer Intern or Entry-Level Developer.

EDUCATION

Narula Institute of Technology

Bachelor of Technology in Information Technology	CGPA 8.9	2022 - 2026

New Alipore Multipurpose School

Class XII	90.80%	2022
Class X	88.28%	2020

TECHNICAL SKILLS

Programming Languages:

C++ and C   JAVA   Python (basic)

Core Concepts:
- Object-Oriented Programming (OOP)
- Operating Systems (OS)
- Computer Networks (CN)
- Database Management Systems (DBMS)

Version Control:
- Git

Web Development: MERN Stack (MongoDB, Express.js, React.js, Node.js)

PROJECTS

Real-time Collaborative Code Editor (using MERN)
- Built a full-stack web application enabling multiple users to **collaborate on code in real time.**
- Used **React** for a dynamic, responsive frontend with syntax-highlighted code editing via **Monaco Editor**.
- Backend powered by **Node.js + Express**, handling room management and live data broadcasting.
- Supports **multi-user editing**, code syncing, and isolated coding rooms.
- Designed for scalability and low latency using efficient **event-driven architecture**.

Smart Home Automation System (Java OOP, Terminal-based)
- Developed a smart home automation system using only **Java OOP concepts**, running entirely on the terminal.
- Implemented functionality to **add devices, turn them on/off, and retrieve the status** of each device.
- Integrated a feature to set AC temperature based on user input, **allowing dynamic adjustments**.
- Enhanced user interaction through a simple, text-based interface for managing multiple devices.

COURSES

- ➢ **C for Everyone: Structured Programming,** by University of California, Santa Cruz, COURSERA
- ➢ **Introduction to Hardware and Operating Systems,** by IBM Skills Network, COURSERA.
- ➢ **GfG 160 - 160 Days of Problem Solving (With Summer Workshops),** by GeeksForGeeks
- ➢ **Full Stack Developer Bootcamp - Master Frontend to Backend,** by GeeksForGeeks
- ➢ **TCS NQT Preparation Test Series,** by GeeksForGeeks
- ➢ **NPTEL Certified in "Programming in Modern C++"**
- ➢ **NPTEL Certified in "Project Management"**

EXTRACURRICULAR ACTIVITIES

- Participated in online coding contests (CodeChef, LeetCode).
- Engaged in college tech discussions and group tasks.
- Played online strategy games to build leadership and focus.
- Helped care for street animals with a local team.