ARPAN DEY

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SUMMARY

A third-year Information Technology student with strong skills and hands-on experience in OOP 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)

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

Database & Backend: MongoDB, MySQL, Express.js, Node.js

Core CS Subjects: Core JAVA, OS, CN, DBMS   **Version Control:** Git

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**.

AI-Powered Image Enhancer (React + API Integration)
- Built a client-side web application that enhances low-quality images using an **AI-based** third-party image enhancement API.
- Developed a responsive user interface in React, allowing upload, preview, and enhance images in a few clicks.
- Implemented loading indicators**, error handling,** and **real-time enhancement** previews for improved UX.
- Optimized for performance and scalability with modular components and efficient state management.

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.