NISHANTH SANJAY N

Enthusiastic and Analytical IT Engineer

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PROFESSIONAL SUMMARY:

Dedicated IT programmer focused on designing innovative, user-centric solutions using cutting-edge technologies. Committed to continuous learning and staying ahead of emerging trends, with a strong drive to apply technical expertise and creative problem-solving to deliver impactful, real-world outcomes.

EDUCATION:

B.Tech in Information Technology	**|AUG 2023 – PRESENT**
Madras Institute of Technology (MIT), Anna University, Chennai-44	CGPA: 8.00 / 10.0
12th Grade	**|2022 – 2023**
AVB Matriculation Higher Secondary School, Coimbatore-20	Percentage: 93%

TECHNICAL SKILLS:

Languages	:	C, C++, Python, JavaScript
Web Technologies	:	HTML, CSS, React.js
Relevant Courseworks	:	Data Structures & Algorithms, OOP, DBMS
Databases	:	MySQL, Oracle DB, MongoDB
Tools & Platforms	:	Git, GitHub, Linux
Soft Skills	:	Problem Solving, Communication, Teamwork, Critical Thinking, Presentation

PROJECTS

- **GrubGrid – Food Delivery Web Platform** (**React.js**) |*FEB – APR 2025*
  - Built a **high-performance SPA** with **protected routes**, **role-based dashboards**, and **real-time cart updates**.
  - Simulated backend workflows (auth, orders, inventory) using **mock REST APIs**.
  - Modularized **10+ UI components** and centralized state logic for **scalable reusability**.

- **ZipX – Huffman-based File Compressor (CLI)** (**C++**) |*MAR – APR 2025*
  - Engineered a CLI tool achieving **47% compression** on **100MB+ files** using Huffman coding.
  - Optimized with **bitwise I/O** and **binary tree encoding** for **minimal memory** and **high throughput**.
  - Designed for **system-level use** with **real-time performance** and **low-latency compression**.

- **AutoServe – Service & Inventory Manager** (**MySQL**) |*SEP – NOV 2024*
  - Designed a **normalized schema** for bookings, billing, and inventory with **relational integrity**.
  - Ensured **concurrency** and **ACID compliance** via **transaction control** and **indexing**.
  - Scaled for **multi-user ERP workflows** with **modular SQL procedures**.

ACHIEVEMENTS & ACTIVITIES:

- **Paper Presentation** 🗎
  Presented an IoT-based smart infrastructure project at **Idea Ignition '25**, Velammal Engineering College, Chennai; recognized for innovation, feasibility, and real-world applicability.
- **Club Activities:**
  - Assistant Head of Website Development, **TED Club of MIT**
    Leading platform development and team coordination for TED event web rollouts.
  - Volunteer, **National Service Scheme (NSS)**
    Engaged in community outreach, cleanliness drives, and campus awareness campaigns.

INTERESTS:

• Book Enthusiast • Chess • Mathematics • Analytical Thinking • Movies • Art • Yoga • Cricket