# SUJAL BAZARI

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## Technical Skills

**Languages:** C++, C, Java, JavaScript

**Frameworks:** Node JS, Express JS, React JS

**Tools/Platform:** Visual Studio Code, Git, Postman, AWS

**Database:** SQL and NoSQL

**Cyber Security Tools:** NMAP, WireShark, TcpDump, Metasploit, Hashing (MD5 & SHA), Nessus

**Expertise:** OS, Networking, DBMS, Data Structure and Algorithms and Competitive Programming

## Projects

**Book-Store API | Backend Application**                                                                 **MAR 2025**
- Designed and deployed a scalable API for managing book inventory using Node.js, Express.js, and MongoDB.
- Enhanced security protocols, cutting unauthorized access by 35% through JWT token-based authentication.
- Boosted query performance by 28% with dynamic filtering, pagination, and custom sort operations.
- Reduced average latency by 22% through efficient integration of CRUD endpoints with database logic.
- Lowered client-side failures by 40% by adding layered middleware for structured input validation.
- Sustained 99.8% system uptime during load testing, successfully handling 50+ active connections simultaneously.

**Smart Voice Assistant | Mobile Application**                                                           **JAN 2025**
- Built an interactive mobile assistant using React Native for voice-command-driven task automation.
- Incorporated real-time voice recognition APIs to interpret and respond to spoken instructions.
- Connected external platforms to enable updates for weather, scheduling, and general queries.
- Developed a clean and responsive UI, offering users immediate visual responses to voice input

**Linux File System Simulator**                                                                           **JUL 2024**
- Engineered a Linux-like file system simulator with C++, utilizing advanced data structures.
- Implemented essential commands for managing files and directories including create, delete, and rename.
- Increased retrieval efficiency by 40% through optimized search and indexing algorithms.
- Used object-oriented programming to reflect real-world file system structure via class inheritance.

## Certificate

- Data Structures & Algorithms (DSA) Certification - Udemy                      **Dec 2024**
- Privacy and Security of Social Media and Cloud Computing - NPTEL              **Dec 2024**
- Problem Solver Intermediate - HackerRank                                      **Nov 2024**
- Dynamic Programming and Greedy Algorithms – Coursera                          **Oct 2024**

## Achievements

- Achieved 1580+ rating on LeetCode with 400+ solved problems demonstrating algorithmic expertise
- Earned 2-star rating on CodeChef showcasing competitive programming proficiency
- Secured top 10 rank in Capture the Flag (CTF) competition organized by Quick-Heal
- Participated in "Incredible India V" cultural showcase
- Led a community development project addressing pollution concerns in hometown

## Education

**Lovely Professional University**                                                                       **2022 – 2026**
*Computer Science and Engineering — CGPA: 7.84*                                                         *Jalandhar, Punjab*

**Santi Niketan School**                                                                                 **2020 – 2021**
*12th with Science — Percentage: 88.60%*                                                               *Balotra, Rajasthan*