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PROJECTS

Distributed Log Aggregator [[GitHub](#)] | MERN, Mongoose, Unix Streams, Git

A scalable backend logging system that ingests application logs via Unix pipelines, stores them efficiently in MongoDB, and provides tenant-isolated APIs for secure log querying.

- Built a **stream-based log ingestion pipeline** using Node.js streams and Unix pipes to process high-volume logs without loading entire files into memory.
- Implemented **multi-tenant isolation** by tagging logs with OS-level tenantId, ensuring users can only access their own logs.
- Optimized log retrieval by **40%** using compound MongoDB indexes (tenantId + timestamp, tenantId + level), enabling faster filtering across large log datasets.
- Tracked system evolution and schema changes through **structured Git history** during iterative development.

School Management System [[GitHub](#)] | MERN stack

- Built a **role-based School Management System** to manage student, teacher, and academic records using structured backend workflows.
- Implemented **CRUD operations** with relational database design, applying DBMS concepts such as normalization and key constraints.
- Developed backend logic for **authentication and controlled access** across different user roles.
- Followed **modular coding practices** and collaborated using **Git/GitHub** within a team-based SDLC environment.

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, SQL, C (Basic)

Frameworks: Node.js, Express.js, Flask, React.js

Web Technologies: REST APIs, API Development, Responsive Web Design

Databases: MySQL, MongoDB

Tools & Platforms: Git, GitHub, Linux, Postman, Microsoft Azure, Unity Engine

CERTIFICATIONS AND ACHIEVEMENTS

- **NPTEL – Management Information Systems (IIT Kharagpur)** - Top 2% Nationwide Rank | [Link](#)
- **NPTEL – Software Engineering (IIT Kharagpur)** - Elite Certification (Distinction) | [Link](#)
- **Microsoft Certified: Azure Fundamentals (AZ-900)** - Validates core cloud concepts, compute, storage, networking, and security | [Link](#)
- **Microsoft Certified: Azure AI Fundamentals (AI-900)** - Validates foundational knowledge of Artificial Intelligence and Azure AI services | [Link](#)
- **Solved 300+ Data Structures & Algorithms problems on LeetCode** - Contest Rating: **1600+** | [Link](#)

EDUCATION

GLA University

B.Tech in Computer Science and Engineering - **CGPA: 7.86**

2023 - Present

Mathura, Uttar Pradesh