SIDDHARTHA DAS

 Github

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Professional Summary

Backend Engineer with **1+ year of experience**. Experienced in building real-time system, integrating large-scale APIs, reducing query execution times, and enabling AI-driven services. Having exposure of working in fast-paced environments and passionate about architecting resilient, scalable back-end solutions,

Education

Indian Institute of Technology (BHU), Varanasi June 2019 – May 2024
Dual Degree (B.Tech + M.Tech) in Mining Engineering *CPI: 7.93/10.0*

Technical Skills

Programming Languages: JavaScript, TypeScript, Python, C/C++, SQL
Frameworks and Tools: Node.js, Nest.js, Express.js, Flask, RESTful APIs, WebSocket, Git
Databases & Caching: MongoDB, PostgreSQL, Redis, Database Optimization

Experience

Pixel Tech March 2025 – September 2025
Backend Developer *Indore, India*

WhatsApp Business API Integration

- Integrated WhatsApp Business API processing **5,000+ messages/minute** with robust failover mechanisms
- Implemented comprehensive messaging, template management, and flow automation features enabling seamless business communication for enterprise clients

Database Performance & System Optimization

- Built **resumable upload/download API** using **worker-threads** for handling streaming data, **eliminating server-side storage** and boosting throughput by **40%**
- Optimized **MongoDB** query performance through strategic **indexing and aggregation pipeline redesign**, reducing execution time by **55%** and improving system responsiveness

Intelligent Chat Management System

- Built real-time chat system using **Ably Realtime and Redis Pub/Sub**, maintaining **sub-100ms latency** for **200+ concurrent connections**
- Integrated **AI chat completion** service with configurable responses using company documentation, improving initial response time and increasing user engagement by **40%**
- Implemented auto-assign feature and campaign orchestrator supporting bulk messaging to **100k+ users** using **trigger.dev** handling using **batch processing** with user-specific message customization

Volvo Eicher Commercial Vehicles July 2024 – March 2025
Backend Engineer (Deputy Manager Level) *Indore, India*

- Delivered **4 critical backend systems** bridging vehicle simulations and production environments, enabling real-time data flow between MATLAB models and production APIs
- Integrated **MATLAB computational models** into **Flask microservices** for automated data verification and anomaly detection in vehicle performance metrics
- Developed vehicle tracking system with **Apache Kafka** processing **500+ events/second** and Redis caching, achieving low-latency fleet management for **1000+ vehicles**
- Automated reporting workflows using Python scripts and cron jobs, saving **8+ hours/month** in manual work while enhancing data accuracy by **40%**

Key Achievements & Recognition

- Achieved **4-star rating (1835)** on CodeChef, **Global Rank 353 in Division-2** and **1st Place** in Mission Code Competition among 500+ participants
- Successfully mentored **50+ students** in backend development, and conducted **5+ Web Development workshops** at IIT BHU