

# Shakeer Gittola

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## Professional Summary

Software Engineer with expertise in distributed systems, cloud storage solutions, and scalable backend architectures. Proven experience in building high-performance applications using Python, and JavaScript with focus on system reliability, availability, and performance optimization. Strong background in large-scale data storage systems, API development, and monitoring solutions for enterprise-grade applications.

## Education

### Sree Vahini Institute of Science And Technology

May 2024

Bachelor of Technology in Electronics and Communication Engineering

CGPA: 6.68

- Relevant Coursework: Operating Systems, Data Structures & Algorithms, Database Management Systems, Computer Networks, Software Engineering, Distributed Systems

## Experience

### Full Stack Developer

March 2025 – June 2025

Zaalima Development

Remote

- Developed scalable distributed backend systems using Node.js and Express.js, handling 1000+ concurrent users with 99.8% uptime and sub-100ms response times for high-throughput e-commerce applications
- Architected and optimized MongoDB database schemas for large-scale data storage, achieving 50% query performance improvement and supporting 10x data growth through efficient indexing and partitioning strategies
- Implemented comprehensive monitoring and alerting systems using custom metrics and logging, reducing system downtime by 60% and enabling proactive issue resolution through real-time performance tracking
- Built fault-tolerant RESTful APIs with robust error handling, circuit breaker patterns, and automatic retry mechanisms, ensuring high availability and reliability for mission-critical storage operations
- Designed and deployed automated testing frameworks achieving 85% code coverage, implementing unit tests, integration tests, and performance testing to ensure system reliability and stability
- Collaborated in agile development environment using Git version control, conducting code reviews and maintaining high code quality standards across distributed development teams
- Optimized system performance through profiling and analysis, reducing memory usage by 40% and improving CPU efficiency for high-scale distributed storage operations

## Projects

### Distributed Storage System | Node.js, MongoDB, Redis, Docker, Kubernetes

Dec 2024 – Jan 2025

- Engineered high-availability distributed storage system with automatic failover and data replication, supporting 200+ concurrent operations with 99.9% reliability and fault tolerance
- Implemented scalable metadata management service with optimized indexing and caching strategies, reducing data retrieval latency by 70% and supporting petabyte-scale storage operations
- Deployed containerized microservices architecture using Docker and Kubernetes, enabling horizontal scaling and efficient resource utilization across multiple data centers

### Real-Time System Monitor & Analytics | Mern Stack, WebSocket, Time-Series DB

May 2025

- Built comprehensive system monitoring solution with real-time metrics collection and analysis, tracking performance indicators across distributed infrastructure with sub-second latency
- Developed high-performance data processing pipeline using Mern, handling millions of events per second with optimized memory management and efficient algorithms
- Implemented automated alerting and anomaly detection system, reducing mean time to detection (MTTD) by 80% through machine learning-based pattern recognition

## Technical Skills

**Programming Languages:** Python, JavaScript

**Backend & APIs:** Node.js, Express.js, RESTful APIs, Microservices Architecture, High Availability Systems

**Databases:** MongoDB, Query Optimization, Indexing, Sharding, Database Design

**System & DevOps:** Git, CI/CD, Performance Monitoring, Load Balancing

**Monitoring & Testing:** System Monitoring, Performance Analysis, Unit Testing, Integration Testing, Observability

## Core Competencies

**Technical:** Large-Scale System Design, Performance Optimization, Distributed Computing, Storage Architecture, Problem Solving

**Professional:** Agile Development, Code Review, Technical Documentation, On-Call Support, Cross-Team Collaboration