

# Toshish Dhote

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## EDUCATION

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**Walchand Institute of Technology, Solapur** – Solapur, Maharashtra, India

2020 – 2024

- BTECH in Computer Science and Engineering

## Skills

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- Languages : JavaScript, Java, Python.
- Frameworks : Node.js, React.js, ExpressJS, Mongoose.
- Technologies & Tools : MongoDB, Redis, RabbitMQ, Web Sockets, GenAI, LLMs, GIT, Nginx.
- Concepts & Practices : REST Services, Query Optimization, WebHooks, Asynchronous Programming.
- System Design : Scalability, Availability, Consistent Hashing, Service Discovery, Load Balancing, Proxy/Reverse Proxy, API Gateway, SPOF Mitigation, Indexing, Query Optimization, ACID Transactions, Database Replication, Sharding, Caching Strategies, Distributed Caching, Message Queues, CheckSums, Fault Tolerance, Failover Mechanisms, Bloom Filters, Idempotency.

## Experience

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**Kore.ai**, Associate Software Engineer – Hyderabad, India

May 2024 – Present

- Designed and implemented distributed auto-scaling and failover mechanism for Mattermost channel integration. Built intelligent connection redistribution algorithms, state machine-based failover logic, and automated recovery systems that ensure 99.9% uptime and seamless horizontal scaling across multiple server instances. Reduced manual intervention by 90% and improved system resilience during server failures by applying Redis Pub/Sub and Redis lock.
- Developed a feature to duplicate 100K+ chatbot phrases from one language setup to another without translation, utilizing RabbitMQ for async processing and MongoDB with batch processing for memory-efficient bulk operations.
- Deployed MongoDB bulk update script with `initializeUnorderedBulkOp` to sanitize legacy data, improving data quality by 99%, and fixing the root cause by dynamically setting fields during data creation.
- Implemented batch insert mechanism in async data pipeline to eliminate out-of-memory errors, increasing processing speed by 20%, while reducing memory usage by 60%.
- **Tech Stack:** *Node.js, RabbitMQ, Redis, MongoDB, JavaScript.*

**Kore.ai**, Software Engineer Intern – Hyderabad, India

September 2023 – May 2024

- Architected new platform service modules using a generalized approach, increasing code reusability and reducing code duplication by 40%.
- Enhanced existing Mongoose schema by updating field types to meet evolving business requirements and ensure compatibility with new functionality.
- **Tech Stack:** *Node.js, MongoDB, JavaScript.*

## Projects

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### Student Performance Analytics Platform

- Built a web-based analytics platform for professors and HODs to monitor student performance, processing Excel data with Python and designing interactive dashboards for actionable insights.
- Tech Stack Used: Python, Flask, MySQL, Python libraries, HTML, CSS, JavaScript.