

# Shiv Chandekar

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## Education

**Indian Institute of Technology Bombay**, Mumbai

*Aug 2018 – Apr 2023*

Bachelor of Technology in Metallurgical Engineering and Materials Science

*Relevant Coursework:* Data Structures, Algorithms, Database Systems, Software Engineering

## Professional Experience

**Backend Java Developer** - *MindGate Solutions Pvt. Ltd., Mumbai*

*Jul 2023 – Present*

**Recon Engine** - **Enterprise Payment Reconciliation Platform**

- Architected enterprise real-time reconciliation platform using **Spring Boot microservices**, **Kafka streaming infrastructure**, **Redis cluster optimization**, and **YugabyteDB HTAP database**, processing **70M+ daily transactions** with microsecond precision and **90% uptime**
- Engineered high-performance data pipelines utilizing **Redis advanced features**, strategic **Kafka partitioning**, and optimized **Spark RDD transformations**, achieving **95% latency reduction** through intelligent parallel processing and distributed computing
- Designed distributed reconciliation system incorporating **Kafka & Redis Streams** for real-time data flow and **YugabyteDB consensus protocol**, delivering **75% execution improvement** across **2M+ transaction cycles** while maintaining ACID compliance

**HyperStream Analytics POC** - **Cost-Optimized Transaction Processing**

- Spearheaded migration of **70M+** UPI transactions from traditional Spark-Kafka architecture to innovative **DuckDB vectorized** processing, reducing processing time from **4+ hours to 15 minutes** while maintaining data integrity
- Delivered exceptional **70%** operational cost reduction and **18x** performance improvement by implementing single-node architecture with optimized resource utilization, eliminating cluster overhead and infrastructure complexity

## Key Projects

**IntelliQuery Dashboard** - **AI-Powered Analytics Platform**

*May 2025*

- Developed **AI-driven analytics dashboard** using **Llama3 LLM**, **DuckDB**, and **Streamlit**, enabling natural language to SQL conversion, reducing analysis time from **1+ hour to 5-10 minutes**
- Created intelligent Root Cause Analysis Agent utilizing advanced LLM models for automated incident response, processing error logs, system screenshots, and performance metrics to deliver preliminary diagnostics and actionable insights
- Implemented secure authentication system with role-based access control and integrated real-time visualization capabilities, supporting multiple data sources for non-technical business stakeholders

**SecureNotes** - **Full-Stack Web Application**

*Sep 2022*

- Developed secure **RESTful API** backend utilizing **NodeJS/ExpressJS** framework with comprehensive **JWT** authentication system, BCrypt password hashing, and robust CRUD operations for secure multi-user environments
- Created responsive frontend application using **ReactJS** with component-based architecture, implementing real-time synchronization, intuitive user interface, and seamless cross-device compatibility for enhanced user experience
- Deployed application with **MongoDB** database integration, implementing comprehensive data validation, error handling, and API rate limiting to ensure scalability and security standards

## Technical Skills

**Programming Languages:** Java, Python, JavaScript, C++, Lua, Bash

**Backend Technologies:** Spring Boot, Spring MVC, RESTful APIs, Microservices Architecture, NodeJS, ExpressJS

**Databases & Storage:** Oracle SQL, Redis, Yugabyte PostgreSQL, Yugabyte Cassandra, DuckDB, MongoDB

**Big Data & Streaming:** Apache Kafka, Apache Spark, Data Pipelines, Redis Streams, Kafka Partitioning

**Cloud & DevOps:** Docker, Kubernetes, Linux Administration, Git, Maven, CI/CD Pipelines

**Frontend & AI Technologies:** ReactJS, Streamlit, JWT Authentication, Llama3 LLM, Langchain

## Achievements & Recognition

- Received prestigious **WOW Machine** recognition from MindGate Solutions within 1.8 years (significantly ahead of standard 3-year benchmark) for exceptional technical performance, innovation, and outstanding contribution to enterprise solutions
- Secured **1st Position** in Virtual Stock Market Competition and **3rd Position** in Cryptocurrency Trading Competition organized by Entrepreneurship Cell IIT Bombay among 500+ participants