TAHA BHAGAT

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PROFESSIONAL EXPERIENCE

Software Engineer — LTIMindtree | Bengaluru, Mumbai, Pune, IN · June 2023 – January 2026

- **Streaming Data Pipelines:** Engineered high-performance pipelines for real-time integration of IT operations data into SQL and NoSQL databases, ensuring efficient and reliable data processing for 1000+ events per second. *(Apache Spark, Kafka, Docker, Kubernetes, PostgreSQL, ArangoDB)*
- **AI Agent Orchestrator:** Transformed and maintained the core orchestration layer for multi agent communication, including handling of contextual reference, memory managment and decision routing, ensuring millisecond response times for user queries. *(Python (POC), Spring Boot, Websockets, SSE, Kubernetes, LLMs)*
- **Finetune Management:** Owned the architecture and development of an internal platform enabling dataset management and the fine-tuning, deployment, and evaluation of language models. *(Spring Boot, FastAPI, uv, Vue.js, ArangoDB, Azure AI, Azure, Docker, Kubernetes)*
- **Data Pipeline Builder:** Created an intuitive GUI-based tool empowering data engineers and analysts to easily build and run ETL pipelines in a low code environment. *(Vue.js, Spring Boot, Apache Spark, Kafka, Kubernetes, PostgreSQL)*
- **Ticket Classification Pipeline** - Collaborated on a machine learning pipeline to handle classification of IT Request and Incident tickets, improving operational efficiency by over 60%. *(Catboost, FastAPI, Kafka, Sentence Transformers, LLMs, ArangoDB)*
- **EDA Chatbot** - Built an EDA chatbot that translates user prompts into SQL/NoSQL queries and delivers detailed insights through natural-language responses and interactive visualisations. *(FastAPI, LangChain, LLMs, RAG, Docker, Kubernetes)*
- **Pipeline Optimization:** Optimised legacy NoSQL streaming pipelines, reducing processing time by 25% by moving logic into Spark transformations and optimising joins. *(Apache Spark, Kafka, Docker, Kubernetes)*
- **Pipeline Observability:** Architected and engineered an audit system using Apache Spark for observability in streaming pipelines, reducing downtime by over 60%. *(Apache Spark, Kafka, Docker, Kubernetes, ElasticSearch)*
- **Batch Data Pipelines:** Developed batch pipelines integrating service catalog data, CIs and relationships for deep analysis, reducing manual effort by 80%. *(Apache Spark, Docker, Kubernetes, ArangoDB)*
- **Kafka Administration:** Setup and maintained a Kafka cluster on Kubernetes (Strimzi) with SSL encryption, optimised partitions to increase event throughput by 30%. *(Apache Kafka, Strimzi, Kubernetes)*

PROJECTS

- **RESTful API for Snake Game:** Built a RESTful API using Rocket Web framework and Diesel ORM in Rust to manage player high scores for an online multiplayer Snake game. ([GitHub](#)) *(Rust, Rocket.rs, Diesel.rs, SQLite)*
- **Flask to FastAPI Migration:** Led the migration of an open source Flask/ SQLAlchemy based microservice to FastAPI/ SQLModel, reducing resource usage by 20%. ([GitHub](#)) *(Python, uv, FastAPI, SQLModel, Docker)*

TECHNICAL SKILLS

Languages: Java, Python, Rust, JavaScript, Bash, HTML/CSS

Technologies: Apache Spark, Spring Boot, FastAPI, Flask, Vue.js, LangChain, Apache Kafka, Docker, Kubernetes, Websockets, SSE, Git, CI/CD, Rocket.rs, Diesel.rs

Databases: PostgreSQL, MySQL, SQLite, ArangoDB, ElasticSearch, ChromaDB

EDUCATION

Bachelor of Technology (B.Tech.) — Electronics & Computer Engineering Maharashtra Institute of Technology, Pune · May 2023

- **Capstone Project — Intelligent Traffic Light Control System:** AI object-detection based adaptive signal timing system.
- **Relevant Coursework:** Data Structures & Algorithms, Data Science and Analytics, DBMS, ML, AI, Computer Networks, Embedded Systems.

ISC — Science The Bishop's School, Pune · May 2019

ICSE — Science The Bishop's School, Pune · May 2017

ACHIEVEMENTS AND AWARDS

- **Best Techie, Automation Batch 11**, LTIMindtree (2024)
- **Best Research Paper**, 5th National Conference on Innovative Global Technology Trends, MIT ADT University (2023)
- **Runner up, AptiSpark**, MIT Pune (2022)