# TAHA BHAGAT

Pune, India
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## PROFESSIONAL EXPERIENCE

Software Engineer                                                                                                                     June 2023 - Current

LTIMindtree | Pune, MH

- Engineered high-performance **streaming pipelines** for real-time integration of ITOps data into SQL and NoSQL databases , ensuring efficient and reliable data processing.
- Created an intuitive GUI-based '**Data Pipeline Builder**,' empowering data engineers, analysts, and scientists to seamlessly integrate data into actionable insights intuitively in a low code environment.
- Optimised existing NoSQL streaming pipelines, reducing processing time by **25%** by optimising joins and moving logic to spark transformations.
- Designed and engineered an **Audit Pipeline** leveraging Apache Spark to ensure comprehensive observability in streaming data pipelines.
- Developed various robust batch pipelines for **ITIL Data**, integrating service catalog data, services, configuration items and relationships for deep analysis.
- Engineered a batch pipeline for processing **historical alert data**, ensuring seamless updates to alert history without impacting real-time alert statuses.
- Collaborated on designing an efficient **NoSQL Knowledge Graph Database** to store and manage ITOps data.
- Designed and developed a streaming pipeline using Apache Spark to integrate ITOps data into a NoSQL Knowledge Graph Database.
- Setup and optimised an **Apache Kafka** cluster on Kubernetes using Strimzi Operator, implementing SSL based encryption to maintain security and enable high throughput data processing, and scalability.

## TECHNICAL SKILLS

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| **Languages** | Rust, Java, Python, Javascript, Bash, HTML+CSS |
| **Technologies** | Apache Spark, Spring Boot, FastAPI, uv, Flask, VueJS, Langchain, Apache Kafka, Docker, Kubernetes, Websockets, SSE, Git and CI/CD, Rocket.rs, Diesel.rs |
| **Databases** | PostgreSQL, MySQL, SQLite, ArangoDB, ElasticSearch |

## EDUCATION

**Bachelor of Technology(B.Tech.) - Electronics and Computer Engineering**                                                May 2023

Maharashtra Institute of Technology, Pune

- **Capstone Project**: **Intelligent Traffic Light Control System** – Designed and implemented an AI-enabled system using object detection to analyse real-time traffic density and dynamically optimise signal timings.
- Coursework included: Data Structures & Algorithms, Database Management Systems, Data Science & Machine Learning, Artificial Intelligence, Computer Networks, and Embedded Systems.

**ISC - Science**                                                                                                                                             May 2019

The Bishop's School, Pune

**ICSE - Science**                                                                                                                                           May 2017

The Bishop's School, Pune

## ACHIEVEMENTS AND AWARDS

- **Best Research Paper**, 5th National Conference on Innovative Global Technology Trends, MIT ADT University (2023)
- Achieved "**Best Techie**" Award, LTIMindtree (2023)
- Runner up at **AptiSpark**, MIT Pune. (2022)

## PROJECTS

- Developed a RESTful API using SQLite, Diesel and Rocket to manage high scores for a web based 'snake game.'
- Migrated an open source Python Flask based project to uv and FastAPI, improving dependency management and performance.