

# Satyam Tiwari

## Contact Details

PHONE: +91 9324678079

EMAIL: [satyamtiwari1004@gmail.com](mailto:satyamtiwari1004@gmail.com)

GITHUB: [github.com/satyamtiwari1004](https://github.com/satyamtiwari1004)

## Education

JUN 2023

M.Sc (Hons.)

COMPUTER SCIENCE

University of Mumbai

## Experience

08/24 - CURRENT

**Senior Associate Consultant** at INFOSYS PUNE

Migrated a legacy PL/I-based monolithic tool to a modern Spring Boot architecture, ensuring full feature parity and enabling efficient large-scale data processing.

Engineered custom collection-based structures and fine-tuned resource configurations to prevent heap overflow, achieving 5–10% faster high-volume sorted data operations.

Introduced advanced Java **parallel streams** and **ForkJoinPool**-based multithreading, alongside improved garbage collection strategies, significantly enhancing scalability and stability.

Integrated **Redis** for high-speed data access and leveraged the **Executor Framework** to enable asynchronous DB-intensive operations, boosting throughput and minimizing runtime bottlenecks.

Employed thread-safe collections and implemented explicit cleanup routines before runs, achieving a **97% performance improvement** by reducing response time from **800K ms to 25K ms**.

Designed and implemented an **AWS**-based CI/CD pipeline to support seamless automated deployments, ensuring high availability and rapid delivery for the modernized architecture.

01/21 - 07/24

**Systems Engineer** at TATA CONSULTANCY SERVICES MUMBAI

Designed and optimized robust **REST APIs** using Spring Boot to transform and migrate user data, integrating advanced Spring caching and ORM techniques to significantly reduce database query times, resulting in a **10%** performance improvement.

Engineered large-scale data processing pipelines using the **Apache POI** library, efficiently writing **millions of rows** of data into Excel files and automating secure uploads to Box cloud storage via **Box SDK** and **JWT**-based authentication.

Developed advanced retry logic combined with a **RabbitMQ**-based asynchronous **microservices** architecture, enabling seamless resumption and migration of failed setups from the exact point of failure, reducing recovery and migration time by **50%**.

Successfully migrated over **40k user setups & 15TB+ of data** to next-gen applications and Box within a compressed timeline, achieving a **98% success rate** and delivering over **\$5M+** cost savings for the client.

## Prototype Projects

03/25 - 04/25

**FLPS Application Modernization** at INFOSYS PUNE

Modernized an **Ant**-based monolithic **Spring** application into a **Maven**-based **Spring Boot microservices** architecture, improving modularity, scalability, and deployment efficiency.

Replaced legacy **Hibernate XML** and **Spring XML** configurations with annotation-based **JPA** repositories and **Java** configuration, simplifying DAO logic and reducing maintenance overhead.

Migrated deployment from **WebLogic** to **Apache Tomcat**, reducing server complexity and streamlining deployment.

## Skills & Languages

• • • Java

• • Python

• • • Spring Boot

• • Maven

• Elastic Search

• • Redis

• • RabbitMQ

• • • PostgreSQL

• • Oracle

• • Git

• Kubernetes

• • AWS

• Small-scale projects and/or assignments

• • Multiple projects and/or experience teaching

• • • Large-scale and/or multi-group projects

## Honors/Awards

2025 | Insta Awards: Awarded for improving the performance and understanding of the PL/I application

2023 | On The Spot Award: Awarded for developing logic to migrate setups having multi-tenant owners

2022 | On The Spot Team Award: Awarded for delivering the application to the client in record time with 0 defects