

Satyam TIWARI

CONTACT DETAILS

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EDUCATION

JUN 2023	M.Sc (Hons.)	COMPUTER SCIENCE	University of Mumbai
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EXPERIENCE

08/24 - CURRENT	<p>Senior Associate Consultant at INFOSYS PUNE</p> <p>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.</p> <p>Engineered custom collection-based structures and fine-tuned resource configurations to prevent heap overflow, achieving 5–10% faster high-volume sorted data operations.</p> <p>Introduced advanced Java parallel streams and ForkJoinPool-based multithreading, alongside improved garbage collection strategies, significantly enhancing scalability and stability.</p> <p>Integrated Redis for high-speed data access and leveraged the Executor Framework to enable asynchronous DB-intensive operations, boosting throughput and minimizing runtime bottlenecks.</p> <p>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.</p> <p>Designed and implemented an AWS-based CI/CD pipeline to support seamless automated deployments, ensuring high availability and rapid delivery for the modernized architecture.</p>
01/21 - 07/24	<p>Systems Engineer at TATA CONSULTANCY SERVICES MUMBAI</p> <p>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.</p> <p>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.</p> <p>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%.</p> <p>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.</p>

PROTOTYPE PROJECTS

03/25 - 04/25	<p>FLPS Application Modernization at INFOSYS PUNE</p> <p>Modernized an Ant-based monolithic Spring application into a Maven-based Spring Boot microservices architecture, improving modularity, scalability, and deployment efficiency.</p> <p>Replaced legacy Hibernate XML and Spring XML configurations with annotation-based JPA repositories and Java configuration, simplifying DAO logic and reducing maintenance overhead.</p> <p>Migrated deployment from WebLogic to Apache Tomcat, reducing server complexity and streamlining deployment.</p>
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SKILLS & LANGUAGES

• • • Java	• • Maven	• • RabbitMQ	• • Git
• • Python	• Elastic Search	• • PostgreSQL	• Kubernetes
• • • Spring Boot	• • Redis	• • Oracle	• • 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