

SATYAM RAJESH TIWARI

+91 9324678079 [◇ satyamtiwari1004@gmail.com](mailto:satyamtiwari1004@gmail.com)

www.satyamtiwari.xyz [◇ linkedin.com/in/satyamtiwari198](https://www.linkedin.com/in/satyamtiwari198) [◇ github.com/satyamtiwari1004](https://github.com/satyamtiwari1004)

EDUCATION

Master of Computer Science, Mumbai University 2021 - 2023
Relevant Coursework: Deep Learning, Data Science and SDN. Grade : A

Bachelor of Computer Science, Mumbai University 2017 - 2020
Relevant Coursework: Java Programming, Data Structures & Algorithm and RDBMS. Grade : A+

EXPERIENCE

Systems Engineer Jan 2021 - Present
Tata Consultancy Services *Mumbai, IN*

- Led the development and served as the Module Lead for an automation project, ensuring the smooth migration of user setups from old legacy application to the new next-gen application and secure export of associated data.
- Analyzed the functionalities of legacy and next-generation applications, identified missing functionalities and potential workarounds to maintain functionality without requiring new feature development on next-gen side.
- Developed and optimized RESTful APIs using Spring Boot framework to extract data from database, perform necessary transformations, and converts it into JSON format compatible with the NextGen application's API to migrate user setups.
- Leveraged Spring caching mechanism in the project to enhance performance, resulting in a notable **10%** improvement in efficiency by reducing database query times.
- Implemented the Apache POI library for handling large-scale data processing, proficiently writing **millions of rows** of data into Excel files for subsequent upload to the box cloud storage using the Box SDK.
- Developed resilient retry logic in application, allowing seamless resumption of failed migration setups from the point of failure, reducing migration time of failed setups by **50%** and enhancing user experience and project efficiency.
- Implemented RabbitMQ messaging queue protocol to facilitate a streamlined setup migration that enabled performance gains through vertical scaling.
- Streamlined application deployment by leveraging Azure Kubernetes for containerized deployments, Azure Pipelines for automated CI/CD workflows, and an Azure Dashboard for real-time monitoring and management.
- Migrated over **40k user setups & 15TB+ of data** to the new next-gen applications & Box within a short duration with a **98% Success Rate** and cost **savings upto \$20M+**.

PROJECTS

Pricey. Pricey is a web application that uses web scraping to extract prices and details from top e-commerce platforms for users. Users can also customise their shopping by setting price thresholds, and an email notification system alerts them when a selected product's price drops. ([Github](#))

Incognito. Incognito is built to provide users with a path to becoming cybersecurity experts with the help of professional cyber security experts. The platform features an intuitive interface for easy navigation and a portfolio builder that enables users to create portfolios in less than **5** minutes that users can share with anyone around the web. ([Github](#))

QrCrypt. QrCrypt is a secure data sharing app that uses QR codes for encrypted communication. It employs AES encryption to maintain data confidentiality during transmission and allows users to securely upload encrypted data to their chosen cloud storage service for centralized storage. ([Github](#))

Covid Info. Designed a COVID tracking platform that locates nearby hospitals and cases, displays precautions, and sends SMS/email notifications for available vaccination slots, providing users with real-time and relevant pandemic information. ([Github](#))

SKILLS

Languages	Java, Python, C, JavaScript
Frameworks	Spring Boot, Django, React Js, Django Rest Framework
Database	MySQL, Oracle, Postgres, MongoDB
Tools & Technologies	Git, AWS, Nginx, Maven, Postman, SonarQube, Azure DevOps, Rest API, RabbitMQ

AWARDS

On The Spot Award (TCS): Awarded for developing logic to migrate solutions having multi-tenant owners.

On The Spot Team Award (TCS): Awarded for delivering the application to the client in record time with 0 defects.