

# Ashishkumar Chincholkar

Senior Automation Test Lead | Big Data Test Automation Specialist

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## SUMMARY

Technical and management experience of **Banking and Finance domain** in providing end-to-end automation solutions, innovation, supporting utilities, Implementation of processes resulting in saving revenue and efforts for customers with usage of varied automation tools and technology (**Python, Java-selenium, Pyspark, BigData-Hadoop, MongoDB, Sybase, Rest API**) coupled with **DevOps** tools. Ready to leverage experience in a new role with potential for long term growth and advancement.

## EXPERIENCE

**Bank of America, Toronto**  
*Vice President -Python Lead Developer in Test*

NOV 2022 - Till Date

As a part of Global Banking customer relationship application, acting as a lead API test automation developer and functional test lead. Cash-pro Online and Admin are the 2 major applications which are deployed for major companies and they provide ease to customers for maintaining their accounts in different banks and countries, reconcile all the account activities in realtime and generate the reports. Application is capable of exchanging API's from different customer's application API and enhance the user experience at one place.

### Responsibilities

- Validate various trade order events such as new, accepted, modified, routed, executed and canceled equities and options trades
- Analyzing requirements and creating test plans and automation strategy.
- Coordinating with different stakeholders to prepare requirement specification documents.
- Designing API automation framework in Python and using Pandas library for data visualization. Ingestion of API data into SQLite database for further analysis.
- Reconciling the report generating data against Oracle database for all account activities.

## SKILLS

- Advanced Python Programing
- Advanced SQL scripting
- Excellent Shell Scripting in UNIX
- Advance OOPS knowledge
- Comfortable with JAVA, Python, VBA, HTML5, CSS
- BIG Data Automation
- Hadoop with Pyspark
- Unittest, Pytest and TestNg Framework
- Python and Java Selenium for Web automation
- Rest-API automation
- Excel VBA-macro.

## TOOLS

- PyCharm IDE-Python
- IntelliJ, Eclipse IDE-Java
- JIRA
- GIT-VCS, SVN
- Jenkins-CI/CD
- Aqua Studio,SQL-Server
- HP-Unified Functional Test
- HP-ALM,QTest for test management
- Postman-API testing

## DATABASE

- Sybase ASE, IQ, Postgresql
- MS-SQLServer, Oracle
- MongoDB

**Tata Consultancy Services**  
**Royal Bank Of Canada, Toronto**  
**Senior Automation Test Lead | ETL Big Data**

OCT 2018 – NOV 2022

CAT-(Consolidate Audit Trade) is **FINRA** Regulatory Reporting project to report EOD trades by transformation of billions of data based on FINRA technical specification, It involved different RBC vendors and inhouse upstream responsible to send trade records to CAT team to transform by applying business specification rules to submit End of Day data to FINRA. CAT system is designed in deep technology like Hadoop Big Data using Apache-Yarn cluster with integration of Amazon S3 bucket and **Microsoft Azure on-prem** cloud service.

**Responsibilities**

- Validate various trade order events such as new, accepted, modified, routed, executed and canceled equities and options trades
- Automated **functional and regression scenarios** in Agile sprint cycle.
- Leading a team to train to use framework and create reusable scripts
- Participating in **Agile practices, Scrum Meeting, Retrospective Call** and Involved with business in requirement gathering.
- Developed technical solutions to resolve complex range of problems by designing **ETL Python-Pyspark based automation framework** with **UnitTest** to run in **Yarn Cluster**
- Developed and implemented **unittest framework** using deep OOPS concept.
- Extensively used **MongoDB, Sybase and Dremio** database and integrated with Automation Framework.
- integration DevOps practice for CI/CD pipeline using **Jenkin** with **JenkinFile groovy script** declarative language, **GIT to build** and deploy automation scripts
- Solutionised wrapper **UNIX** shell scripting to provide command line capabilities to invoke different **pyspark spark-submit** automation test
- Achieved significant improvement in **Excel VBA test data preparation tool**.
- Scripting complex **Hive/Parquet dataframe join conditions** to transform the data.
- Designing **Selenium automation framework** with deep OOPS concept using **TestNG** and did POC for cucumber to implement BDD for Business Analyst
- Designed and Implemented **Python-PyTest, Java-TestNg selenium**

- Hive-for data lake

**ENVIRONMENT**

- UNIX, Linux
- Apache Hadoop
- Windows 7, 8, 10

**PERSONAL STRENGTH**

- **QUICK LEARNER:** quick learner by adopting new technology, existing framework and excellent debugging skill.
- **COMMUNICATION:** Interpersonal, Verbal, Problem solving and listening skill
- **SERVICE:** Having client focused approach skill include Patience, Attentiveness and a positive language
- **ORGANIZATION:** Excellent coordination with stakeholder

automation framework

- Participating in providing Proof of Concept to different QA team to achieve test automation goals
- Create automated presentable dashboard to management team using **Python-Jinja2 HTML rendering**
- Automation of **Rest-API** to read Json and compare data against database.
- Created various PIV automation standalone python executable to run independently without python dependencies.

### Project Highlight

As a part of CAT team in RBC-Capital market, I have been exposed to cloudera/hortonworks Big Data fabric:

- **Apache Spark** leading platform for large scale SQL, batch processing, stream processing and general-purpose cluster computing system, specified using high level Python and scala API.
- **Hadoop Distributed File System(HDFS)** being the primary data storage system used.
- **Amazon S3** web service object storage through web service interface.
- **Pyspark(Spark interface for python)** python library used for interaction with spark api's.
- **PyMongo(MongoDB driver for python)** python library used for interaction with mongo Database collections.
- **Py4J(Python Library)** used for interaction with Java.
- **Anaconda2(Python distribution)** Anaconda2, a python distribution, provides extended python libraries as a package.

### Achievements

- Created a highly effective Big Data Automation solution built in Pyspark-hadoop to reconcile billion records, it significantly impacted efficiency and improved operations.
- Recognized as **Employee of the Quarter** for outstanding performance and team contributions in delivering xml comparator tools for UAT to PROD deployment.
- Deployed UI-automation framework using **Selenium-Java**, **Pytest-Python** framework in different project needs.
- Awarded as a Best Team of the quarter to deliver a high efficient solution for operation engineering **python-Vba** solution.

## **Tata Consultancy Services**

### **Royal Bank Of Canada, India – Senior Automation Test Lead**

JUL 2013 – SEP 2018

RBC-Capital Market Technology team is responsible to provide automation services to Capital Market Line Of Business applications.

#### **Responsibilities**

- Managing and leading automation test team to closely monitor the deliverables.
- Quick learner to cope up with any scripting language in a short time to provide proof of concept.
- Responsible for designing test automation framework using UFT, Excel VBA macros, **Selenium** using JAVA and TestNG.
- Responsible for designing automation databases in SQL server and Postgres database.
- Developed automation reporting UI in VB dot net to integrate and enhance automation framework.
- Involved in designing automation DATA VALIDATION engine tool to compare capital market data in any source like text, excel, xml and database etc.
- Good understanding of JIRA, ALM-api, SVN and github.
- Continuous focus on the team to deliver value adds and performance improvement by analyzing their current work.

## **Tata Consultancy Services**

### **Bank Of America, Pennington,NJ — Automation Test Lead**

AUG 2009- JUL 2013

Merrill Lynch (BOA) Global Wealth Management (GWM) group is one of the leading providers of a broad range of both proprietary and third-party wealth management products and services globally to individuals, small-and mid-size businesses and employee benefit plans.

Merrill Lynch (BOA) online application is developed in .NET & provides live data from market, keeps a record of client's investments & also helps the firm as well as financial advisors to deepen the client relationship, deliver a robust technology platform to extend capabilities, accelerate time to market and improve efficiencies. It will help online capabilities to deliver services at a low cost to the mass affluent market.

## Responsibilities

- Managing and handling team size of 8 resources, running daily calls to track work progress and assign the task.
- Creating And Designing the Automation Framework using HP-UFT, ALM, VBA Macros
- Involved in creating and designing SQL server Database for Data Driven Automation Framework approach.
- Created Descriptive Functions and Used Descriptive Programming in QTP whenever required
- Creating Excel add in to pull QC test lab execution report using Excel Macro and Quality Center APIs
- Developed various Excel Macro forms and integrate with SQL server

## **Tata Consultancy Services, Chennai-India— Automation Test Engineer**

MAY 2007- AUG 2009

The LATIS Testing project deals with the billing and mediation systems for Qwest. This system takes care of billing and producing invoices for all QWEST customers. All customers receive a set of services through a product. Products are groupings of various telecommunication services that range from basic and long distance service to internet service.

## Responsibilities

- Designing the Automation Test Script.
- Used Descriptive Programming to handle dynamic Objects using VBScript.
- Data set up in tables, wherever needed, before doing testing in the backend database is Oracle-9i.
- Created Data Driven Tests that randomized the test data, for testing the AUT with real life test conditions using Excel file and database
- Defect management using Quality Center.
- Test results review analysis and reporting to manager.

## FRAMEWORK DEVELOPMENT

During my employment I have developed and architect several frameworks for QA departments.

- **ETL Validator(2018-till date in RBC)** : Unit Test Framework with deep OOPS used for functional/Regression/Performance testing of ETL transformation. It can handle > 1TB data and Pyspark Spark cluster ready code. Code Base: Python, Pyspark, java, Py4J, SQL, bash, HDFS, hive, Mongo, Rest-API, Webhdfs. Integrated with **qTest and JIRA and Jenkins created CI/CD.**
- **Big Data Parser:** Python concurrent multithreading framework to parse

huge data with CPU cores. Code base used python, threadpool executor, Pandas to read data in chunks.

- **Big-Data Reconciliation Tool:** Python-pyspark based framework to compare Huge data by providing primary keys and generating HTML summary results. Code Base -Python-Pyspark, SQL, HTML-Jinja2 library, CSS, Amazon S3 for storage of results.
- **Rest API comparator:** Unit Test Framework for RestFul Api to compare responses between different source systems. Code base - Python, Unittest, request library and OAuth2.0, basic Auth for authentication and authorization. **JAVA-TestNG based framework** using RestAssured library.
- **UI Test Automation: Test NG** with selenium customized framework using page-object model to test any UI interface. Created great custom functions converted into flow keywords to drive from external source systems like excel and database. UFT-VB script framework for thick client and integrated with HP ALM
- **DATA Validation tool:** python based data comparator tool compare 2 datasets like excel, csv, psv, tsv, DB, Json, XML etc and generate custom HTML result for better visualization.

## EDUCATION

**Nagpur University, India** — Bachelor Of *Electronics Engineering*

2002 - 2006