**Muhammad Umer** **Niaz**

MississaugaL5M 6L4 | (437)799-3600

umer.niaz@gmail.com | https://umer.live/

13+ years of experience in the software quality assurance industry with strong technical and educational background. Hands on experience with testing of enterprise applications, safety critical embedded products, web applications, mobile apps and automation of both Desktop and Web based applications using QTP (UFT), TestComplete and Selenium.

Specialties: Software testing, Software test automation, Standard Compliance, SDLC, Project management, Client management and Team management.

**EXPERIENCE**

**Test Automation Architect** Feb 2023 – Present

ALTUS GROUP, CANADA

Projects roles and responsibilities

*Project: (Commercial Real Estate Management & Analytics)*

I am working on a project related to Asset and fund intelligence for the commercial real estate industry. Handling billions of assets in portfolios. I have worked on unit / integration and system test automations. ‘Continuous Integration’ pipeline is fully implemented as well. Language framework used for this project is Python with Pycharm.

* Azure based integration testing solutions.
* Unit / Integration and system test cases automations.
* Test Planning & Test Reporting for automation scenarios.
* Dynamic data verifications through Databases ( RedShift & MSSQL).
* Microservices architecture-based API Automations.
* Azure Messaging Queue injections.
* Package based implementation handling multiple automation code bases with common framework architecture.

Management roles and responsibilities

* Envision Automation goals for Altus Group
* Making Test Strategy and Test Planning for Automation.
* Mentoring the QA Team
* Quality Improvement and Team Development with Metric Analysis and Optimization, Team Development and Advocacy
* Reporting Automation department performance to Delivery Managers.
* CI Implementation and Server Management

**Lead Software Test Automation Engineer** Jul 2022 – Nov 2022

EPAM SYSTEMS, MALAGA

Projects roles and responsibilities

*Project: (Stocks Investment Applications Suite)*

I worked on a project related to stock investment applications for the biggest portfolio investment company of the world. Handling billions of assets in portfolio. I have worked on unit / integration and system test automations. ‘Continuous Integration’ pipeline is fully implemented as well. Language framework used for this project is Scala with IntelliJ.

* Azure based integration testing solutions.
* Unit / Integration and system test cases automations.
* Test Planning & Test Reporting for automation scenarios.
* Parallel executions implementation for multiple clients.
* Dynamic data verifications through Databases.

Management roles and responsibilities

* Reporting Automation department performance to Delivery Managers.
* CI Implementation and Server Management
* Direct Communication with Clients

**Principal Software Development Engineer in Test** Jul 2018 - Jun 2022

CONTOUR SOFTWARE, LAHORE

Projects roles and responsibilities

*Project: (Real Estate Applications Suite)*

I worked on a project related to real estate applications handling up-to 500 clients on a single code base. I created a hybrid automation framework capable of driving scripts based on keywords / actions making it extremely robust and adaptable to the client needs. Continuous Integration’ pipeline is fully implemented as well. We used Selenium with TestNG (Used Java) for this purpose:

* Development of Data Driven Framework with Java.
* Common Automation scripts based on product architecture.
* Continuous Integration pipeline with Jenkins.
* Parallel executions implementation with 10 servers.
* Management focused emails generation.
* Dynamic data verifications through Databases.

Management roles and responsibilities

* Reporting Automation department performance to Product Managers.
* Maintain succession plan for Automation department and new resource interviews and training.
* CI Implementation and Server Management
* Direct Communication with Clients

**Pr. SQA Engineer / Functional Automation Lead** Jan 2016 - Jul 2018

NETSOL, LAHORE

Projects roles and responsibilities

*Project: (Wholesale & Retail Finance / Asset Management Desktop Application)*

I worked on a project related to loan management system handling up-to 100,000 live contracts and need robust automation framework capable of handling changes to application as per client needs with minimum changes in the framework. We created a hybrid automation framework capable of driving scripts based on keywords / actions making it extremely robust and adaptable to the client needs. We used Smart Bear TestComplete (Used Python) for this purpose:

* Prepare project planning documentation
* Development of Advanced Keyword / Action Driven Framework
* Lead Automation of 4000+ test scenarios
* Building Custom functions / procedure to develop support for legacy PowerBuilder application using Complex Text Recognition & Image Recognitions
* Compilation & Reporting Automation Results to management

*Project: (Credit Application Web Application)*

I worked on a project related to Web application managing client proposal needs. Application with the capability of handling up-to 1000 concurrent users and each application carrying up-to 700 fields. Functional automation of the application was carried-out through under my leadership. We used Selenium Webdriver (Used Java with Maven) for this purpose:

* Prepare project planning documentation
* Development of Data Driven Framework Using SQL
* Lead Automation of 200+ test scenarios
* Building business actions reusable in the framework
* Compilation & Reporting Automation Results to management

*Project: (Web Services Automation)*

I worked on various projects having web-services exposed for client needs. Automation of Web services is also under my supervision.

* Prepare project planning documentation
* Development of Data Driven framework for Web-services

Management roles and responsibilities

* Reporting Automation department performance and growth planning of 13+ resources.
* Maintain succession plan for Automation department and new resource interviews and training.
* Designing and conducting team performance evaluations.
* Training Automation resources on framework developments and management.

**Sr. QA Engineer / Software QA Team Lead** Jun 2010 - Dec 2015

Powersoft19, LAHORE

Projects roles and responsibilities

*Project: (Mobile Application for writing reading, writing & updating smart tags)*

* Prepare project planning documentation
* Testing mobile application for usability, functionality
* Testing through mobile testing tours including Orientation, Temperature & stress testing
* Back end application and SQL database tests
* Software QA documentation from requirements review till defect tracking with support of team

*Project: (Device Upgrading Software)*

I worked on a project related to device upgrading and service software which is used by the client service centers worldwide to upgrade 10 different device variants & a total of 20,000+ devices each with 40+ configurable parameters pulled from database and automatically upgrade any configuration changes to the device.

* Prepare project planning documentation
* SQL Database testing of parameters extraction and insertion
* Verifications of successful parameters update to devices
* Device communications fault seeding

*Project: (Fixed gas detection device)*

I worked on a project related to gas sensing devices embedded software with the compliance of safety standard CENELEC EN50271 for SIL-1 application.

* Prepared SQA documentation for EN50271 SIL-1 compliance
* Prepared white box dynamic test scenarios and processes
* Verified source code compliance with industrial safety standards

*Project: (Portable gas detection device)*

I worked on a 6 different projects related to gas sensing devices embedded.

* Prepared SQA documentation
* Prepared Test design strategies
* Prepared white box dynamic test scenarios and processes
* Verified source code compliance with industrial safety standards

*Project: (German Rail Control System)*

I worked on a project of embedded software which will use in German Rail Control System with the compliance of railway software safety standard CENELEC EN50128 for SIL-3 application.

* Verified software requirements, architectures, designs, module designs and coding phase artifacts.
* Prepared white box dynamic test scenarios and processes.
* Verified source code compliance with industrial safety standards.
* Executed functional testing on safety and non-safety features of the software to validate work product.
* Created software change management processes.

Management roles and responsibilities

* Reporting SQA department performance and growth planning
* Maintain succession plan for SQA department and new resource interviews and training
* Designing and conducting team performance evaluations.

**EDUCATION**

**Post Graduate Diploma - Computer Science** Mar 2020 - Apr 2021

*VIRTUAL UNIVERSITY OF PAKISTAN, Lahore*

**Bachelor of Applied Science (B.A.Sc.) - Communications Engineering** Aug 2006 - Jun 2010

*NATIONAL UNIVERSITY OF COMPUTERS AND EMERGING SCIENCES, Lahore*

**SKILLS**

**Expert in:** Java, Python, Selenium, TestComplete, TestNG, Test Automation, Jira, SQL, IntelliJ, Jenkins

**Intermediate in:** Ruby, Scala, Agile Methodologies, Dockers

**LICENSES & CERTIFICATIONS**

**TestComplete Expert** 2016

*SmartBear*

**Certified Mobile Application Tester** 2015

*iSQI* - *15-CMAPFL-TE-80219-31*

**Certified Technical Test Analyst** 2014

*ISTQB* - *14-CTALTTA-56804-NL*

**Certified Tester Foundation Level** 2011

*ISTQB* - *sr2725447*