**Md Akmal Hossain**

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**762-217- 9223**

**www.linkedin.com/in/akmalcode**

**Professional Summary:**

* Overall, 9 years of experience in Manual & Automation testing and Technical Support. All stages of Software Testing Life Cycle (STLC) and Software Development Life Cycle (SDLC) and implementation.
* Responsible for the timely delivery and ensuring quality of the deliveries.
* Understanding and identifying gaps in business requirements and analysis.
* Converted more than 1800 manual test cases into automated tests which reduced 70% of manual effort.
* Flagging bugs and defects and relaying issues to the software engineer.
* Interact with Developers and Business Analysts to perform various types of testing throughout the Software Testing Life Cycle (STLC) and Bug Life Cycle (BLC).
* Testing types: manual testing, functional, non-functional testing, white box, black box testing, dynamic, static testing
* Involved in preparing the requirement traceability matrix (RTM)
* Bug management: bug reporting, bug life cycle, bug management tools
* Test execution: run test cases, regression testing, exploratory testing, bug validation, test tracking, and test prioritization.
* Strongly experienced in Page Object Model to Automate Functional and Regression Testing by creating Hybrid Framework using Eclipse, Maven, Java, TestNG, and Selenium WebDriver.
* Ability to successfully lead multiple projects in parallel with aggressive delivery timelines.
* Expertise in End-to-End Testing(E2E), System Integration Testing (SIT), Smoke Testing, Backend Testing, Black Box and White Box Testing, User Acceptance Testing (UAT), Functional Testing, Positive/ Negative Testing, System Testing, Regression Testing, GUI Software Testing, Ad-hoc Testing, Boundary Value Testing.
* Experienced in preparing and executing Test cases, evaluating test results, and Report discrepancies to the development team using ALM.
* Experience in using build/deploy tools such as Jenkins, for Continuous Integration & Deployment for Microservices.
* Expertise in testing RESTful architecture API using Framework Rest Assured for Web Service.
* Developed and maintained custom libraries for the common automation framework using JAVA in Selenium as SDET.
* Conceptualized, designed, and implemented automated functional API test cases using SOA test, and Soap UI
* Good in writing SQL queries for backend data validation and data integrity checks.
* SQL queries for accessing data from the MySQL/Oracle/SQL Server/MongoDB/Gemfire.
* Experience with Medicaid, CHIPS Medicare, and Health Insurance flow.
* Applied Agile Test Practices SCRUM, Scripted Test Cases for Test Driven Development TDD, and developed test cases for story cards based on Acceptance Test Driven Development ATDD.
* Good knowledge of Docker for test environments and dev-environments needs, as well as configuration automation using Docker containers.
* Able to work independently and with another QA Analyst on a project.
* Excellent analytical, communication, documentation, and interpersonal skills.
* Ability to adapt myself to any environment, self-learner, and hard worker. Comfortable in working with the team.
* Good Knowledge of using BDD Frameworks like Cucumber using Gherkins using Java language.
* Good knowledge of utilizing cloud technologies including Pivotal Cloud Foundry (PCF), and Amazon Web Services (AWS).
* Knowledge of associated technologies such as Windows Server, Active Directory (Azure
* Participate in the development of roadmaps and participate in the standards process for Identity and Access Management (IAM) solutions.
* Having knowledge of Kafka messages and setting up the Kafka API calls.
* Testudo responsibilities include:
* Developing test plans, test cases, and test scenarios based on project requirements and specifications.
* Performing various types of testing such as functional testing, regression testing, integration testing, and user acceptance testing (UAT).
* Creating and maintaining automated test scripts using testing tools and frameworks to improve testing efficiency and coverage.
* Collaborating with developers, product managers, and other stakeholders to understand requirements and validate software functionality.
* Ensuring that software meets quality standards, complies with specifications, and fulfills user expectations.
* Participating in process improvement initiatives, sharing feedback, and implementing best practices to enhance the overall testing process.

**SKILLS TECHNICAL PROFICIENCY**



|  |  |
| --- | --- |
| Methodologies | SDLC/STLC; Agile, Kanban, Waterfall |
| UI Web Automation Testing | Selenium WebDriver, Cucumber BDD,  |
| API Automation /Performance Testing | RESTful API as RestAssured, SoapUI, JMETER, POSTMAN |
| Frameworks | Page Object Model (POM) as Data Driven, Hybrid Framework, BDD as Cucumber, TDD as TestNG, Spring MVC and Hibernate, Log4j, Cypress |
| Build and Dependency Management | Maven |
| Continuous Integration (CI) | Jenkins |
| Repository Systems/ Version control systems | Git and GitHub, BitBucket, SVN, Terraform |
| Containerization | Docker, Kubernetes |
| Defect and Test Project Management Tools  | JIRA, HP ALM, TestLink, LeapWork |
| Programming & Scripting  | Ansible, Core JAVA, JSP, C#, C, C++, JavaScript, Python3, SQL, XML, JSON, HTML, YAML, jQuery, React.js, Node.js, Express, Ajax, Spring, Hibernate, Servlet, Jax-RS, Jax-WS, Jersey, |
| IDE | Eclipse, IntelliJ, STS |
| Web/Application Servers | Apache (Tomcat, XAMPP), IIS Server |
| RDBMS | Oracle, Postgresql, MS SQL Server, MySQL, Gemfire, MySQL workbench |
| NoSQL/Document-oriented databases | MongoDB |
| Cloud Technology | PCF Client API, CF User Defined Services, Sauce Labs, AWS, Azure, Oracle cloud Infrastructure  |
| OS | MAC, Windows, Linux/Unix, Android |

**Professional Experience:**

**Randstad Aug 2021 –**

**[Kaiser Permanente]**

**Sr. Automation Engineer (SDET)**

**Responsibilities:**

* Worked on Test Data Management and Test Environment Management in the project.
* Responsible for Line test planning, test estimation, test execution and defect management.
* Working as Test Co-Ordinator between onshore and offshore team for TDM & TEM like qa, dev, prod, UAT
* For deployments int all functional test environments automated solutions.
* Experience in Manual and Automation testing of GUI and functional aspects of Client – server and web-based applications on multiple levels of SDLC and STLC
* Using Java OOP’s concepts for developing automation framework using Eclipse Maven, Selenium WebDriver, and TestNG with TDD approach.
* Using Java performed Data data-driven automation Testing and SQL, JDBC connection, and selenium WebDriver for test Automation.
* Used selenium GRID for cross-platform and cross-browser testing by running the test script on different versions.
* Performed web service testing using Java and Rest Assured tested Rest API’s call.
* Used writing to customize Xpath to locate web elements.
* Worked on Python Open stack APIs
* Implementation of CI/CD pipelines using Jenkins, GitHub CI/CD to automate the build, test, and deployment processes of Python scripting.
* Using Python monitored and maintained CI/CD pipelines, troubleshoot issues, and implemented optimizations to enhance pipeline performance, reliability, and scalability.
* Implement continuous integration and continuous deployment (CI/CD) pipelines using Jenkins, Docker, and Kubernetes, resulting in faster feedback cycles and improved release processes.
* Work with the project teams on implementing the defined business Roles within Access & Identity Management (AIM) solution.
* Workflow manual testing of a series of tasks to produce a desired outcome in several stages.
* Test Automation using LEAPWORK built on Selenium.
* Using LEAPWORK with test cases and carrying out the steps as we navigate through the application it will automatically inspect the application element and suggest building blocks to use as well.
* Planned, developed, and executed the quality assurance activities.
* Testing on cloud-based like Azure, and Bluemix in environment QA, UAT, and Prod Testing.
* Created cypress project in the command line and repo to manage codes.
* Build and enhance automated test framework using Cypress from scratch.
* To automate UI used JavaScript, NodeJS, and NPM for the Angular base User interface
* Design and implement automated test strategies and test frameworks to support healthcare software project testing efforts.
* Provide input to weekly reports, including periodic activities and projects (e.g. Jira, Confluence, SharePoint)
* Coordination and communication with the clients in analyzing and solving production issues. Experience using CICD tools such as Jenkins.
* Agile Program Management, JIRA-Agile Scrum/Kanban, Bug Cycle management, SDLC designs advice using JIRA.
* Participate in the review, implementation, and training of testing standards, defect processing, and metrics reporting for the Quality Assurance department.
* Integrated with Jira and Xray. So, we have got 100% test results including manual and automation.
* Developed using Xray plug-in with Jira API and combined them REST calls using JAVA.
* Used Jira-Xray to manage all phases of the software testing process like writing test cases and executing.
* Provided support in the performance testing JMeter task including development test plan and script and reports

Environment & Tools: Java Selenium WebDriver, Rest Assured, Postman, Jira, Confluence, Xray, Eclipse, Cypress, JavaScript, NPM NodeJS, Azure Cloud, Bluemix Cloud.

**Pyramid Consulting Jun 2021 – Jul 2021**

**[Cox Communication]**

**Sr. QA Test Engineer**

**Responsibilities:**

* The high-level workflows involve the following systems ICOMS, BACON, iControl, and SMP.
* Defined Business Use Cases and Activity Diagrams to represent different workflows and associations.
* Web portal testing for functional knowledge of Provisioning Systems in OSS.
* Involved in the weekly client meeting to develop in-depth knowledge and understanding of the application requirements.
* Generated Use Case diagrams using Microsoft Visio to depict process flows, timelines, and cost-benefit models.
* Test Planning, Test case design, Test Environment Setup, Test Data Setup, Defect Management, Test log, Test results, Test Traceability Matrix and Test Metrics.
* Generate and review Business Test Cases and prepared Use Case Documents.
* Create Workflow Diagrams, Process Models, Activity Diagrams, and Use Cases for incorporating design changes in business processes.
* Prepared the Vision Statement and Documents containing essential business elements and detailed definitions and facilitated requirements definition and vendor communication for desired system enhancements.
* Gathered User and Business Requirements through design sessions, brainstorming, and prototyping.
* Analyzed the impact of Business Process changes on the existing systems and process flows. Analyzed the testing efforts that would be undertaken by other systems due to the changes in current systems.
* Coordinated analysis, development, and testing efforts between various application teams.
* Studied existing Business Applications and Processes, collected End-User Requirements, analyzed sources of revenue leakage, and suggested the improvised business process model.
* Worked closely with Developers and User Representatives, participated in the Product Design Process including specifications and end-user reviews, and application walk-throughs.

Environment & Tools: GUI testing of ICOMS, BACON, iControl, SMP, and Postman.

**Datum Software Sep 2020 – May 2021**

**Johns Creek- GA**

**Sr. Automation Engineer (SDET)**

**Responsibilities:**

* Writing code and script to automate provisioning of Selenium Java using Page Object Model.
* Tested designs, develops, and maintains payment processing systems and APIs.
* Tested Implements security measures to protect sensitive payment data.
* Collaborates with cross-functional teams to integrate payment solutions into applications or websites.
* Tests and troubleshoots payment systems to ensure functionality and reliability.
* Wrote Test Automation Script using Java, Selenium WebDriver, and TestNG which performed sanity testing on every deployment performed in the QA Environment and sent Email Notification on failure.
* Wrote Test Automation Script using Java, Selenium WebDriver, and TestNG which performed Regression testing
* Developed a Hybrid Framework using Page Object and Data-Driven Model on top of TestNG and Selenium WebDriver for test automation.
* Experience in Core Java API, development by applying different concepts like OOPS concepts, Collections, Strings, Lambda and Functional Interfaces, Methods and Encapsulation, Class design, Exception handling, Multithreading, etc.
* Extensively used concepts of Core Java like Class, Object, OOPs (Inheritance, Polymorphism, Abstraction, and Encapsulation), Collections, and developed Page classes and POJO classes as per the requirements.
* Extensively used TestNG Listener to generate automatic responses on Test failure, Skip, and Success.
* Used Extent Report for creating Test reports.
* Used Jenkins with Maven for continuous integration.
* Used TestNG Data Provider and Apache POI for Data Driven Testing.
* Configured Jenkins as a Continuous Integration server with GitHub and Maven.
* Developed and executed SQL queries in the database to conduct Data integrity testing.
* Involvement in Testing REST service using Rest API with Rest Assured and nested JSON format.
* Have developed REST API automation script.
* Wrote and executed Test Cases for User Stories and Logged Defects for test failures using JIRA.
* Experience on the AWS platform and its dimensions of scalability including VPC, EC2, ELB, and S3.
* Familiar with Cloudwatch, Elastic IPs, and managing security groups for EC2 Servers.
* Developed API for using AWS Lambda to manage the servers and run the code in the AWS.

Environment & Tools: Java, Selenium WebDriver, TestNG, Maven, Jenkins, MS Excel, MS Word, JSON, AWS, Jira, Test Link, eclipse.

**HCL America Jun 2018 – Feb 2020**

**[Synchrony]**

**Alpharetta- GA**

**API Test Automation Lead Engineer**

**Responsibilities:**

* Involved in Agile SCRUM meetings with the Development and Product Management team and analyzed and developed product stories and included them in Sprint backlog.
* Tested Microservices implementations using RESTful web services, Spring Boot, Spring JDBC, and Cloud Config server with PCF.
* Closely work with Kafka Admin team to set up Kafka cluster setup on the QA, UAT, and Prod environment.
* Tested Spring Kafka API calls to process the messages smoothly on Kafka cluster setup.
* Implemented Kafka producer and consumer applications on the Kafka cluster.
* Designed, implemented, and tested the Spring Domain Model for the services using Core Java.
* Experienced in driving Quality Assurance and excellent technical and problem-solving, organizational, and compliance skills.
* Experience with testing Automation of API testing using Rest-Assured.
* Used Postman & SOAPUI for rest service testing.
* Working on Jira Agile Boards and configuring.
* Provided an aggregated, cross-application project view of quality status and defect trends and managed and enforced consistent workflows and processes using ALM.
* Analyzed the System Specification to develop the Test Cases
* Developed and executed Test Cases to test data loads, verify application rules and workflows & data security.
* Used Java language and TestNG framework for scripting; Used Maven for building the WebDriver project.
* Configured the test suite to Jenkins to make it run on every successful deployment, which helped reduce the feedback loop time to the developers.
* Coordination and communication with the clients in analyzing and solving production issues. Experience using CICD tools such as Jenkins.
* Using Splunk to develop dashboards, forms, SPL searches, reports, and views, administration, upgrading, alert scheduling, KPIs, Visualization, and Splunk infrastructure.
* Strong communication with customers, developers Product Owners, and Stack holders.
* Collaborate with Product Management teams to identify great services that we can develop to solve real problems for our customers.
* Created different reports using Power BI reports utilizing the desktop and the online service and scheduled refresh.
* Experienced int developing Power BI reports and dashboards from multiple data sources using data blending.
* Experience in Micro services development using spring boot and deployment in Pivotal Cloud Foundry (PCF).
* Explained to executive-level personnel how PCF is the key component for a meaningful digital transformation.
* Solutions involved logging with Splunk, custom build packs, service-to-service security, and other common issues faced when PCF is involved in a large-scale digital transformation.
* Contributed to the SDET applications architecture of several microservices on PCF.
* Hands-on experience in Splunk to create various application-based dashboards for security event monitoring.
* Extensively worked on JMeter to create Test cases to measure the performance and functionality of web services.
* Create a schedule run the scenario using JMeter and generate the necessary graphs.

Environment & Tools: Jira, Java Spring tool suite, Selenium WebDriver, TestNG, Maven, Jenkins, MS Excel, MS Office, JSON, Java, HP ALM, Splunk, New Relic, Pivotal Cloud Foundry, Eclipse, JMeter

**Wells Fargo, Richmond- VA May 2017 – Apr 2018**

**Selenium Test Automation Engineer**

**Responsibilities:**

* Developed BDD (Behavior Driven Development) Test Automation framework in multiple sprints using Java and open-source technologies like Selenium Web Driver and Cucumber/ Gherkin.
* Experience assessing testing processes, creating, and implementing testing strategies and SQA strategies using Agile-Scrum methodology.
* Involved in SCRUM meetings with the Development and Product Management team and analyzed and developed product stories and included them in Sprint backlog.
* Tested Web Services for application to ensure all the components are working as per the requirements.
* Designed and documented HTTP Protocols with REST/JSON, SOAP/XML UI, API data formats, and API versioning strategy.
* Web services testing via Tool SOAP UI Restful web services with REST assured.
* Developed and executed Test Cases to test data loads, verify application rules and workflows & data security.
* Used Appium to facilitate mobile testing by creating a mobile Driver class with the required Mobile capabilities.
* Reviewed and Designed Functional Requirement Specifications and Test Plans.
* Conducted manual and automated testing for mobile applications on iOS and Android platforms using tools such as Selenium WebDriver, Rest Assured, and Appium.
* Testing mobile devices to ensure their configuration, operation, and capabilities work efficiently.
* Developing automated test scripts and frameworks for improved mobile app performance.
* Collaborated with developers and product managers to identify and resolve issues, ensuring timely delivery of high-quality mobile applications.
* Participated in use-case reviews, authored, and reviewed test planning artifacts in ALM.
* Provided an aggregated, cross-application project view of quality status and defect trends and managed and enforced consistent workflows and processes using ALM.
* Used ALM to attach screenshots associated with the defect with the proper severity and priority, and linked the related Test Script, from which the Defects were generated.
* Found critical bugs in the application, weekly Reporting through Bug Reports and Maintenance Traceability Matrix using ALM.
* Tested on Different databases like Oracle, and SQL server using SQL Queries.
* Designed, developed, and implemented a driven automation testing framework utilizing Java, TestNG, and Selenium WebDriver.
* Conducted Black box, Functional, Regression, and Smoke testing with Eclipse TestNG, Selenium WebDriver, Maven, and Java, for web-based applications.
* Used Java language and TestNG framework for scripting; Used Maven for building the WebDriver project.
* Involved in the creation of an automation framework in Selenium WebDriver using a behavior-driven approach like Cucumber using Gherkin Language.
* Configured the test suite to Jenkins to make it run on every successful deployment, which helped reduce the feedback loop time to the developers.
* Involved in pushing the automated test code into CI (Continuous Integration) and monitored the test execution in Jenkins once the code was pushed into CI.
* Extensively used Selenium (data-driven, XPath locator) and WebDriver to test the web application.
* Supported early morning/off-hours/weekend launches and monitored systems with business teams as needed.

Environment: Java, Appium, Selenium WebDriver, TestNG, Cucumber/ Gherkin, JUnit, Maven, Jenkins, Unix, MS Office, JSON, Oracle, SQL Server, Toad, HP ALM

**T-Mobile, Atlanta- GA Jul 2014 – Feb 2017**

**Selenium Engineer**

**Responsibilities:**

* Wrote Test Cases and Test Procedures based on the Test Plan.
* Analyzed project documentation and prepared detailed Test cases.
* Analyzed, Understood, and Estimated requirements.
* Performed Positive and Negative testing.
* Used Quality Center to create Test outlines and maintained Test scripts and created, modified, and debugged the Scripts.
* Assisted in user ID clean up, Create User IDs, Reset Passwords, and Create New Projects in Quality Center/ALM.
* Created the Traceability matrix using Quality Center/ALM.
* Used Quality Center to create Test outlines, and maintained Test scripts; created, modified, and debugged the Scripts.
* Performed Data integrity testing by executing SQL statements and validated the tables in the database.
* Responsible for developing automated test cases with Selenium and custom scripting as appropriate to the test case.
* Developed and maintained custom libraries for the common automation framework using C# in Selenium.
* Performed Integration and Regression testing to check the compatibility of new functionality with the existing functionalities using Selenium.
* Designed Automation Testing Framework for web-based applications using Selenium that maintains the workflow as an end-user.
* We have developed automated testing for REST API testing.
* Prepared Test status reports for each stage and logged any unresolved issues into the Issue’s log.
* Designed and maintained Terraform configurations to automate the provisioning of AWS resources, resulting in cost savings of 20% through efficient resource management.

Environment: C#, Selenium WebDriver, Specflow, RestSharp, Java Script, Oracle, MS Visio, MS Excel, Windows, UNIX, MS Office, Jenkins, HP Quality Center.

**Thakral One Jul 2013 – May 2014**

**Location: Dhaka Bangladesh**

**Jr. Technical Specialist as a support engineer**

**Responsibility:**

* Technical Support: Responding to user inquiries and providing technical assistance to resolve hardware and software problems. This may include troubleshooting issues related to operating systems, applications, printers, network connectivity, and peripheral devices.
* Hardware Maintenance: Installing, configuring, and upgrading computer hardware components such as memory, hard drives, graphic cards, and peripherals. Conducting periodic maintenance activities, including cleaning, hardware diagnostics, and system performance optimization.
* Software Installation and Configuration: Installing, configuring, and updating software applications, including operating systems, productivity tools, antivirus programs, and other software required by end-users. Ensuring software licenses are valid and up to date.
* User Account Management: Creating, modifying, and deleting user accounts in the organization's systems. Managing access privileges and permissions for different users based on their roles and responsibilities.
* Troubleshooting Network Issues: Assisting users with network connectivity problems, including issues with wired and wireless connections, IP configurations, DNS resolution, and VPN connectivity.
* Data Backup and Recovery: Implementing data backup strategies and performing regular backups to protect critical data. Assisting users in restoring data from backups when necessary.
* Security and Virus Protection: Implementing security measures and antivirus solutions to protect computer systems from malware, viruses, and other security threats. Educating users about best practices for safe computing and data protection.
* User Training and Support: Conducting training sessions and workshops to educate users about new technologies, software applications, and best practices. Providing user support and assistance in adopting new tools and technologies.
* Installation of Power BI to the end customer.

**Education:**

**MIT Professional Education**

Cloud & DevOps: Continuous Transformation

<https://www.credential.net/70438429-1248-44ad-8cfb-99c35e32a380>

Leadership & Innovative

<https://www.credential.net/49b65d58-c070-4c6c-9fad-08578897b407>

Cultural Awareness for Global Business

<https://www.credential.net/93f0cef3-5992-4056-b000-2c979676e2ef>

**Georgia Institute of Technology**

Full Stack Flex Web Development & Test

URL: https://bootcamp.pe.gatech.edu/

Graduate: October 2019

University of Development Alternative

B.Sc. in Computer Science & Engineering

URL: http://uoda.edu.bd/

Graduate: February 2011

LinkedIn: linkedin.com/in/akmalcode

GitHub: https://github.com/akmalscode

GitHub portfolio: https://akmalscode.github.io/portfolio/index.html

Certification: Oracle

Oracle Cloud Infrastructure Foundations 2020 Certified Associate

https://www.youracclaim.com/badges/4e35262c-2f41-4e50-a93a-5e16c648f81a/linked\_in

Oracle Cloud Infrastructure 2019 Cloud Operations Certified Associate

https://www.youracclaim.com/badges/4e35262c-2f41-4e50-a93a-5e16c648f81a/linked\_in

Oracle Cloud Infrastructure 2019 Certified Architect Associate

https://www.youracclaim.com/badges/2a4050f8-32bd-4bc1-96a6-dbae0ea72048/linked\_in

Certification: Microsoft

Microsoft SharePoint 2013