Mohammad Umer Farooq

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About Me

An experienced and versatile QA professional with a robust manual and automation testing background. Skilled in programming languages such as Java, C#, Python, JavaScript, Typescript, CSS, HTML5, and SQL, and experienced in using tools such as Jira, Playwright, Cypress, WDIO, Selenium, Cucumber, Mocha, Chai, Nunit, Applitoolseyes, and HP Quality Center (QC). Proficient in various types of testing including regression, system, functionality, performance, black box, sanity, and usability testing. Strong communication skills and ability to interpret and understand business and technical requirements.

Skills

- Proficient with programming languages like Java, C#, Python, JavaScript, Typescript, CSS, HTML5, and SQL.

- Efficient with testing repository and defect management using Jira

- Great at utilizing Automation tools such as Playwright, Cypress, WDIO, and Selenium using various frameworks such as Cucumber, Mocha, Chai, Nunit, etc.

- Experienced in testing RESTful API using Postman and Swagger, etc

- Used Applitoolseyes for visual validation testing

- Expertise in using HP Quality Center (QC) to perform activities like writing Test plans, Test Cases, executing Test Cases, developing and maintaining Test Scripts, tracking defects, and reporting bugs.

- Involvement in various stages of the Software Development Life Cycle (SDLC) and Software Testing Life Cycle (STLC).

- Well acquainted with writing detailed test cases for functional and non-functional requirements.

- Experienced in executing User Acceptance Testing (UAT), Regression Testing, System Testing, Functionality Testing, Performance Testing, Black Box Testing, Sanity Testing, and Usability Testing

- Created detailed QA documentation including QA reports, and actively participated in project status meetings such as sprint planning, daily standups, and retro meetings

- Good communication skills in understanding and interpreting business requirements specifications and technical requirements specifications.

- Experienced with developing positive and negative test cases for functional testing and manually executing the test cases.

- Good at creating defects reports and efficiently communicating with the team

- Good judgment skills to analyze the High-risk area of the application, which helps to focus testing efforts on the Application Under Test (AUT).

- Great understanding of the responsibilities that go into test automation for accessibility

- Has extensive knowledge utilizing CSS Selectors and Xpath for automation

- Experienced using XCode for mobile testing purposes

EXPERIENCE

Egen Solutions, Naperville IL/Tempus, Chicago IL *- QA Automation Engineer*

May 2022 - Current

- Utilized Playwright to manipulate the browser and test the internal web application programmatically

- Used Cypress to Automate and add functionality to existing workflows on the web application

- Conducted visual validation testing using Playwright w/ TypeScript and Applitoolseyes

- Used Postman to test RESTful Services and verify CRUD operations manually

- Used Swagger for API documentation

- Made sure new UI features functioned properly according to expected results

- Used RestAssured with Java in order to automate RESTful services and verify response object

- Developed effective testing strategies and test plans using Cypress, identifying critical test scenarios and ensuring accurate validation of web application functionalities.

- Conducted thorough cross-browser testing using Cypress, ensuring consistent behavior and functionality across different web browsers and versions.

- Integrated Cypress tests into continuous integration pipelines (e.g., Jenkins, CircleCI) to achieve seamless automated testing as part of the development workflow.

- Utilized Cypress to simulate load and stress scenarios, evaluating application performance and identifying potential bottlenecks and optimization opportunities.

- Utilized the Playwright testing framework to design and execute comprehensive end-to-end (E2E) and UI automation tests for web applications

- Validated the responsiveness of web applications by creating Playwright tests that assess their behavior and appearance on different screen sizes and devices

- Expanded testing capabilities by using Playwright to automate API integration tests, verifying data integrity and communication between frontend and backend systems.

- Utilized various AWS services, such as Amazon S3 for object storage, Amazon RDS for database management, and Amazon SQS for message queuing, to design scalable and resilient architectures.

- Designed serverless applications using AWS Lambda, API Gateway, and other serverless services, enabling efficient and cost-effective execution of event-driven functions.

- Participated in cloud migration initiatives, successfully moving on-premises applications and workloads to AWS infrastructure.

- Utilized Java-based testing frameworks like TestNG or JUnit to structure and manage test suites, enhancing test organization and reporting capabilities.

- Implemented data-driven testing techniques in Java, using external data sources such as Excel or databases to validate diverse test scenarios.

- Proficient in setting up and configuring Jenkins pipelines to automate the Continuous Integration (CI) and Continuous Deployment (CD) processes for various projects

- Maintained Jenkins jobs for building, testing, and deploying applications, ensuring consistent and reliable software delivery

- Implemented version control and code review integrations within Jenkins pipelines, enhancing collaboration and codebase stability.

- Collaborated with development and QA teams to integrate automated testing into Jenkins pipelines

- Used Splunk to debug API calls

- Participated in Scrum agile methodology testing

- Performed smoke testing on the application with each build

- Worked in an Agile Environment

- Conducted black box testing in various environments to check functionality and compatibility

- Participated in the team for User Acceptance Testing Along with helping in creating the user manual

- Participated in the development and maintenance of test scripts

- Used Jira for creating stories and reporting bugs/defects

- Assisted with the creation of QA reports

- Conducted Defect Reporting and Tracking throughout the defect life cycle

- Analyzed test results and created the reports

- Used a dependency called Bartender to generate and sign off reports

- Conducted API testing using Swagger

- Used OPUS to generate and manage reports

- Utilized NPM, NVM, and Node to configure and install all sorts of dependencies and packages

- Conducted regression testing for automation suites

- Manually tested requirements for the Suites/Test groups

- Used Docker for developing, shipping, and running applications.

- Utilized the Terminal to Pull and Push patient records and data using Git.

- Amazon AWS was used to pull data from the cloud regarding patient records

- Conducted e2e testing to assure that the existing features work for the application

- Utilized Splunk to check up on report status.

- Used Xpath to add functionality to features on the website

- Created Test Plans using Zephyr Scale

- Used Chai to compare outputs of results and outcomes of success or failure

- Utilized CSS Selectors to add functionality to features

- tested various endpoints using Postman and validated that the reports are displaying properly on the UI depending on the application's version.

- Used SNS experience for communicating with medical system services

- Implemented AWS CloudFront to distribute content to users with low latency and high data transfer speeds through a content delivery network (CDN).

- Utilized AWS IAM (Identity and Access Management) to control access to AWS resources, defining permissions and roles for different team members.

- Set up and managed AWS VPC (Virtual Private Cloud) to isolate and secure resources within a private network, controlling inbound and outbound traffic with network ACLs and security groups.

- Conducted validation tests in the GLP environment

- Used Redux to check for modules and versions for various patient-type reports

Ortho Clinical Diagnostics, Bridge Water NJ *- QA Engineer*

March 2019 - February 2022

- Debugged The UI aspect of the application by checking for design errors and functionality defects.

- Utilized Cypress to automate workflows for various projects

- Conducted Various Validation tests in environments such as GCP

- Tested application for overall performance and functionality.

- Helped create a user manual for user acceptance testing.

- Created test plans and test cases using Zephyr Squad/Scale

- Used Postman to verify API responses in JSON format as well as status codes

- Conducted black box testing in different test environments to check for compatibility issues.

- Used Cypress to automate various application workflows and wrote the code for functionality using JavaScript as the programming language.

- Utilized react.js to create reusable components that helped with automating the UI

- Managed patient record/data using SQL for various tasks such as adding new patient information, updating records, etc.

- Utilized various AWS services, such as Amazon S3 for object storage, Amazon RDS for database management, and Amazon SQS for message queuing, to design scalable and resilient architectures.

- Designed serverless applications using AWS Lambda, API Gateway, and other serverless services, enabling efficient and cost-effective execution of event-driven functions.

- Successfully implemented and maintained AWS-based architectures, including Virtual Private Clouds (VPCs), subnets, security groups, and network ACLs, to establish robust and isolated network environments.

- Implemented disaster recovery solutions utilizing AWS services such as Amazon Glacier for data backup and AWS CloudFormation for infrastructure-as-code templates, ensuring business continuity.

- Utilized Chai to check for the output of various automated functions and compare them to the expected results and value.

- Used Mocha for unit and integration testing

- Wrote test cases in cucumber

- Wrote and ran tests using Junit

- Utilized Wave and Google Lighthouse to conduct accessibility and performance checks.

- Used Microsoft Azure cloud services for designing, implementing, and managing cloud solutions.

- Deployed and configured virtual machines (VMs) on Azure, ensuring optimal performance and scalability for diverse workloads.

- Managed Azure storage solutions, including Blob storage, File storage, and Azure Disk storage, to efficiently store and access data.

- Deployed and managed Azure App Services, allowing seamless deployment of web applications, APIs, and mobile backends with high availability and automatic scaling.

- Also used Chrome Dev Tools to conduct performance testing and fix issues.

- Checked for overall quality of the software before releasing any new features requested

- Used Node.js to conduct asynchronous testing and segments of code for different functionality

- Used JSforce as one of our API libraries to access certain record types with function calls

- Used Swagger to conduct endpoint testing for API

- Heavily used Redux for checking for testing across client, server, and native environments

- Provisioned and managed virtual servers using Amazon EC2 (Elastic Compute Cloud) to host applications and services.

- Utilized Amazon S3 (Simple Storage Service) for scalable and durable object storage, storing data such as images, documents, and backups.

- Leveraged AWS RDS (Relational Database Service) to set up managed relational databases like MySQL, PostgreSQL, or SQL Server to support applications' data needs.

- Used SQL in order to query for test data and test stored procedures

- Utilized Microsoft Office applications to document the majority of workflows/manage test data

AHIMA · Freelance Consultant

Sept 2015 - Feb 2018

- Developed REST API which allows sophisticated, effective, and low-cost application integration
- Used Entity Framework (DB First)
- Wrote web applications using tools such as ASP.Net server controls, Validation Controls AngularJS, TypeScript, and SQL
- Responsible for writing code using Node.JS

- Rebuilt sections of an e-commerce site, primarily the membership portal
- Responsible for deploying and releasing new code into different environments using TFS
- Worked with a team toward new workflow which helped implement a better application delivery process
- Used Aptify API to manage DB Entities / Client information
- Used Java Script to validate user input
- Researched new tools for future uses and improvements.
- Performed manual and automated testing using NUnit for UI-level testing
- Wrote Unit Tests for testing API and code-level tests
- Created test plans and documented user stories utilizing Microsoft Word and Excel
- Learned, worked with, and helped transition into CMS (Sitecore)
- Designed and implemented a data analysis pipeline using Python, pandas, and matplotlib, analyzing customer behavior patterns to optimize marketing strategies and increase sales conversion rates.
- Automated the generation of weekly sales reports by creating Python scripts that extract, transform, and load data from various sources, reducing manual effort and ensuring data accuracy.
- Implemented end-to-end testing scenarios by creating Python scripts that simulate user interactions and validate application functionality across various environments and platforms.
- Utilized Python's Selenium library to automate web application testing, verifying cross-browser compatibility and enhancing regression testing efficiency.
- Created a Restful microservice architecture using Flask framework, reducing response times by 40% and improving overall system scalability.
- Implemented custom authentication and JWT-based token validation for securing API endpoints, ensuring data integrity and user privacy.

EDUCATION

Waubonsee Community College - *Associates Degree in Science*

August 2019 - December 2020

Benedictine University- *Bachelor's Degree in Science*

January 2021 - December 2022