**Amulya Pabbu**

**Test Automation Engineer**

+1 (913)-433-3131 | [Amulya - LinkedIn](https://www.linkedin.com/in/amulya-pabbu-a11429302/) [GitHub](https://github.com/AmulyaPabbu?tab=repositories) | [amulyapabbu@gmail.com](mailto:amulyapabbu@gmail.com)

**PROFESSIONAL SUMMARY:**

* Test Automation Engineer with 5 years of experience in diverse sectors including Telecommunications, Energy/Utilities, Banking, Healthcare, Retail, and Manufacturing.
* Experienced and proficient in manual testing(utilizing SDLC/STLC methodologies and testing concepts to ensure comprehensive test coverage and adherence to quality standards across projects), automation testing (including Selenium, Cucumber, Maven, Git & GitHub, Jenkins, Docker and other), API testing (using tools like Postman and REST-assured), mobile testing (with Appium for both iOS and Android platforms), and cloud testing(AWS and GCP).
* Comprehensive understanding of all phases of the Test Life Cycle, including requirements gathering, test planning, scheduling, testing, defect tracking, and reporting.
* Translated business requirements into detailed technical specifications using tools like Confluence, ensuring clarity and completeness for development and testing teams.
* Developed extensive test plans and cases based on functional and non-functional requirements, ensuring thorough coverage of system functionalities.
* Utilized tools like XMind to create and map test plans, ensuring a clear visualization of the testing process and coverage.
* Professional expertise in Smoke Testing, Black box testing, Functional/Manual testing, System Integration Testing, System Testing, Regression Testing, User Acceptance Testing, Ad-hoc Testing, Security Testing, and Performance Testing.
* Conducted API testing using Postman and verified database interactions using MySQL Workbench, ensuring data integrity and correct functionality.
* Identified, documented, and reported bugs using JIRA, working closely with developers to ensure timely and effective resolutions.
* Maintained detailed test documentation and provided regular status updates using Microsoft Office tools, ensuring clear and comprehensive records of testing activities.
* Managed test scripts and documentation using Git, facilitating collaborative work and version control among team members.
* Implemented BDD practices using Cucumber, translating user stories into executable test scenarios for precise validation of system behavior.
* Developed and executed automated test scripts using Selenium WebDriver for functional and cross-browser testing, and integrated automated tests into CI/CD pipelines.
* Automated build, test, and deployment processes using Jenkins, fostering continuous integration and delivery for efficient updates and deployments.
* Conducted extensive testing across multiple platforms, including web, mobile, and cloud, ensuring compatibility and functionality in diverse environments.
* Conducted load and performance tests using JMeter to identify system bottlenecks and ensure performance standards were met.
* Performed security assessments using Burp Suite, identifying and mitigating potential vulnerabilities in applications.
* Configured cloud environments and containerized applications using Docker, enhancing scalability and reliability of system deployments.
* Actively participated in Agile practices, including daily stand-ups, sprint planning, and retrospectives, ensuring iterative development and timely delivery.
* Performed functional, integration, and regression testing on Salesforce applications, ensuring data integrity and proper functionality of cloud services.
* Tested IoT device integrations and machine learning models, validating performance, accuracy, and interoperability of complex systems.
* Conducted exploratory testing and participated in user acceptance testing (UAT), ensuring that systems met user expectations and requirements.
* Set up and managed isolated test environments using Docker and VMware, ensuring consistent and reliable test executions across configurations.
* Assisted in creating user manuals and training materials, ensuring effective adoption and utilization of systems by end-users.
* Experienced in training and mentoring junior testers and team members on automation best practices and tool usage.
* Implemented testing best practices and guidelines, continuously improving test automation and quality assurance processes.
* Ensured all tests and processes adhered to company security and compliance standards, maintaining the integrity and confidentiality of customer data.

**TECHNICAL SKILLS:**

|  |  |
| --- | --- |
| **Area** | **Tools and Technologies** |
| **General Testing Tools** | Selenium, TestComplete |
| **Test Automation Frameworks** | TestNG, JUnit, Robot Framework, Cucumber, SpecFlow |
| **Performance Testing** | JMeter |
| **API Testing** | Postman, RestAssured, SoapUI, |
| |  | | --- | | **Continuous Integration/CI | Continuous Deployment/CD** | | |  |  | | --- | --- | |  |  |   Jenkins, GitLab CI/CD, AWS CodePipeline, Azure DevOps |
| **Version Control** | Git |
| **Build Tools** | Maven |
| **Test Management** | JIRA, TestRail, ALM |
| **Bug Tracking** | JIRA, Bugzilla |
| **Programming Languages** | Java, SQL |
| **Virtualization & Containerization** | Docker, Kubernetes |
| **Cloud Platforms** | AWS |
| **Security Testing** | Burp Suite |
| **Mobile Testing** | Appium |
| **Database** | MySQL, MongoDB |
| **IDE & Code Editors** | IntelliJ IDEA, Eclipse, Visual Studio |
| |  |  | | --- | --- | | **Reporting and Documentation** |  | | |  |  | | --- | --- | |  | Confluence, Microsoft Office (Excel, Word, PowerPoint), ExtentReports, Harvest, Snagit | |
| **Communication & Collaboration** | Microsoft Teams, Zoom, Confluence, Trello |
| |  |  | | --- | --- | | **Project Management** |  | | |  |  | | --- | --- | |  | Jira, Trello, Microsoft Project | |
| **Agile & Scrum Tools** | |  |  | | --- | --- | |  | JIRA Agile, Rally | |

**EXPERIENCE:**

1. **Project profile:**

|  |  |
| --- | --- |
| **Client** | **Gait Solutions LLC** |
| **Location** | **Remote- KS** |
| **Duration** | **January 2024- April 2024** |
| **Role** | **Test Automation Engineer** |

**Description**: As a Test Automation Engineer, I immersed myself in cutting-edge technologies and contributing to crucial projects such as IoT Integration and Machine Learning Model Testing. My adeptness in problem-solving and collaborative spirit led me to overcome technical hurdles and enhance test coverage for complex applications.

**Project Contributions:**

**E-commerce Platform Testing:**

* Identified essential features requiring testing.
* Designed and automated test cases.
* Conducted extensive testing scenarios, including exploratory and cross-browser testing.
* Analyzed test results, reported issues, and participated in user acceptance testing (UAT).
* Automated regression tests and improved testing strategies.

**CI/CD Pipeline Setup:**

* Configured Jenkins for automated test triggers.
* Integrated Git for version control.
* Created Docker containers for test environment standardization.
* Monitored and enhanced the CI/CD pipeline’s performance.
* Implemented code review and code quality tools (SonarQube).
* Automated deployments and applied infrastructure as code (IaC) principles.

**IoT Device Integration:**

* Analyzed communication protocols for IoT devices.
* Designed and automated test cases for IoT data exchange.
* Collaborated with hardware engineers and conducted regression, interoperability, and load testing.
* Ensured data integrity and optimized network configurations.
* Developed scripts for monitoring IoT device communication.

**Machine Learning Model Testing:**

* Validated model accuracy and developed automated test suites.
* Conducted unit, stress, and bias testing.
* Evaluated model performance under various conditions.
* Collaborated with data scientists and domain experts for model refinement.
* Used explainability techniques and ensured compatibility with software systems.

**Key Tasks:**

* Dealt with changing website parts, broken tests, and test data management.
* Worked with mentors and team members to solve problems and improve processes.
* Attended workshops and conducted research to tackle complex issues.
* Developed better problem-solving skills, contributing to project success and personal growth.
* Improved proficiency in Selenium WebDriver, JUnit, Jenkins, Git, Docker, and Kubernetes.
* Explored Page Object Model, Behavior-Driven Development, and API testing with Postman and GraphQL.
* Gained insights into how AI and ML can enhance testing processes.
* Received guidance and support from team members. Engaged in team discussions and shared ideas regularly.
* Participated in team activities, building trust and fostering a positive work environment.

1. **Project profile:**

|  |  |
| --- | --- |
| **Project** | **Delta Dental** |
| **Client** | **Genpact** |
| **Location** | **Hyderabad, India** |
| **Duration** | **June 2021- December 2022** |
| **Role** | **Associate Analyst** |

**Description**:  Delta Dental is an American network of 39 independent dental insurance companies serving all 50 states. The project involves migrating individual customer data from an in-house system to Salesforce. Additionally, it includes revamping Dataquest's community portals for members, clients, and providers, and expanding these portals to 33 additional states. A new web portal for Delta Dental, similar to the existing SQE portal, will also be developed.

**Responsibilities**:

* Collaborated with stakeholders to gather and analyze requirements, defining the scope for writing user stories.
* Identified and documented acceptance criteria for user stories.
* Prepared a comprehensive test plan document and a traceability matrix to ensure complete test coverage.
* Assisted in establishing the entire Quality Assurance (QA) process documentation based on Agile methodology.
* Executed tests and analyzed results to ensure the software met design specifications. Conducted detailed analysis of test outcomes to identify discrepancies and ensure quality standards.
* Involved in planning the test framework setup using Selenium for automation, Postman for API testing, and Appium for mobile testing.
* Involved in designing and developed custom test frameworks for automated testing using Selenium and SpecFlow for Behavior Driven Development (BDD).
* Was involved in designing the IVR flow, including prompts, menus, and call routing paths.
* Was ivolved in planning the architecture for cloud testing, integrating Salesforce service cloud and other cloud platforms.
* Utilized tools such as XPath, FirePath, and Firebug for locating elements and verifying test coverage.
* Implemented API testing using Postman and REST-assured to validate endpoints and ensure correct data transmission.
* Created test scenarios for mobile applications using Appium, focusing on both iOS and Android platforms.
* Created and executed mobile test cases using Appium for both Android and iOS applications.
* Configured and managed cloud testing environments, focusing on Salesforce custom and standard objects including members, providers, and clients.
* Conducted functional, integration, and regression testing for the Salesforce application, specifically focusing on service cloud and case management modules.
* Identified and logged defects after test cycles, providing detailed reports and collaborating with developers to ensure timely resolution and improved software quality.
* Performed Salesforce testing, working extensively with provider, member, and client objects, including setting up relationships and configuring data in Salesforce.
* Executed cross-platform, UI, and backend testing, ensuring compatibility and functionality across various environments.
* Performed comprehensive API testing using Postman and REST-assured to ensure endpoint functionality and data integrity.
* Utilized specialized testing tools like LoadNinja for performance testing, simulating real-user traffic to identify and address performance bottlenecks. Conducted load tests to ensure the scalability and reliability of the revamped Dataquest community portals.
* Conducted mobile application testing using Appium, ensuring application functionality and compatibility on different devices and OS versions.
* Conducted cloud testing to verify data migration and integration on Salesforce and other cloud services.
* Connected to databases to query data using SQL for verification and validation.
* Automated test execution using Microsoft Test Manager (MTM) and Selenium, with continuous integration of build, deploy, and test processes using Jenkins and Maven.
* Uploaded and managed test cases in Team Foundation Server (TFS) for version control.
* Monitored integration runs, performed failure analysis, and debugged test scripts, addressing any issues promptly.
* Used AWS and Salesforce cloud services for environment setup, testing, and monitoring.
* Prepared and shared detailed test reports on a daily and weekly basis with stakeholders and higher management.
* Created and maintained dashboards for reporting using HTML and CSS, providing real-time updates and insights.
* Interacted closely with developers to discuss and resolve defects, participating in bug tracking, reviewing, and analysis.
* Updated test plans and test cases periodically to accommodate changes in requirements and new features in an Agile environment.
* Exhibited strong organizational, multitasking, and time management skills by preparing comprehensive test plan documents and a traceability matrix to ensure complete test coverage. Managed multiple tasks efficiently within the Agile framework.
* Participated in weekly assessment meetings with subject matter experts and developers to review progress and plan for future improvements.
* Maintained and enhanced automated test scripts for continuous integration, ensuring the system remained robust and efficient.
* Implemented continuous testing for APIs, mobile applications, and cloud environments to ensure ongoing quality.
* Established and documented QA processes, aligning with industry best practices and ensuring high-quality deliverables.
* Maintained comprehensive documentation for test cases, scripts, and frameworks, facilitating knowledge transfer and onboarding of new team members.
* Documented cloud testing protocols and procedures to ensure compliance and best practices.

**Environment:** Selenium, SpecFlow, NUnit, Appium, Postman, REST-assured, Appium, AWS, Salesforce, Microsoft Test Manager (MTM), Jenkins, Maven, SQL, Team Foundation Server (TFS), HTML, CSS.

1. **Project profile:**

|  |  |
| --- | --- |
| **Project** | **CStar** |
| **Client** | **Genpact** |
| **Location** | **Hyderabad, India** |
| **Duration** | **February 2020- May 2021** |
| **Role** | **Associate Analyst** |

**Description**:  CStar provides a wide range of services including personal banking, commercial banking, wealth management, global banking, and markets. Led the enhancement of Bank's online banking platform to improve customer experience, increase security, and add new features for account management and transactions.

**Responsibilities**:

* Collaborated with business analysts and stakeholders to gather and analyze software requirements for the online banking platform, ensuring a comprehensive understanding of business needs.
* Created and maintained automated test scripts using Selenium WebDriver and TestNG to validate functionalities of the platform.
* Utilized Sauce Labs to perform comprehensive cross-browser testing, ensuring consistent functionality and user experience across multiple browsers and devices.
* Executed end-to-end testing of web services using SoapUI to verify the integrity and performance of SOAP and RESTful APIs.
* Built and set up new development testing tools, environment, and infrastructure for component tests, integration, and system tests, ensuring comprehensive test coverage and efficient testing processes.
* Experienced in all types of testing, including performance testing, User Acceptance Testing (UAT), and back-end testing. Utilized tools like JMeter for performance testing, conducted UAT to ensure the system met user requirements, and performed back-end testing to validate data integrity and functionality.
* Organized and tracked test cases, plans, and defects using TestRail, facilitating effective test management and defect resolution.
* Integrated automated tests into the Jenkins CI/CD pipeline, enabling continuous testing and rapid feedback on code changes.
* Was involved in conducting load and performance tests using JMeter, identifying bottlenecks and ensuring the platform met performance requirements under varying user loads.
* Involved in utilizing Burp Suite to perform security assessments, identifying and mitigating potential vulnerabilities in the online banking platform.
* Assisted in setting up isolated test environments using Docker for consistent and reliable test executions across different configurations.
* Leveraged Maven to automate build processes and manage dependencies, ensuring consistent and efficient deployment of test environments.
* Worked with developers and team members using Git and GitHub for code version control and collaborative development.
* Created detailed test execution and defect reports using ExtentReports, providing clear insights into test results and project status.
* Validated data integrity and performed backend testing using MySQL, ensuring reliable data handling and processing in the banking platform.
* Implemented testing best practices and guidelines to maintain high standards of quality and reliability in automated testing processes.
* Developed data-driven test scripts to validate various banking scenarios, enhancing test coverage and reliability.
* Coordinated and executed integration and system testing to ensure seamless interaction between different modules and services of the platform.
* Optimized test scripts and processes, reducing test execution time and improving the overall efficiency of the testing framework.
* Utilized TestComplete for UI functional testing, automating complex test scenarios for the online banking platform. Ensured high reliability and accuracy in UI interactions, contributing to the platform's overall quality and user satisfaction.
* Documented test cases, scripts, and results, contributing to a well-maintained knowledge base for future reference and onboarding.
* Continuously explored and implemented new testing tools and methodologies to improve test automation and quality assurance processes.
* Ensured all tests and processes adhered to the company's security and compliance standards, maintaining the integrity and confidentiality of customer data.

**Environment:** Selenium WebDriver**,** TestNG**,** Java**,** TestRail**,** Jenkins**,** Git**,** GitHub**,** Maven**,** ExtentReports**,** Docker**,** Sauce Labs**,** SoapUI**,** JMeter**,** Burp Suite**,** MySQL.

1. **Project profile:**

|  |  |
| --- | --- |
| **Project** | **OG&E** |
| **Client** | **Tech Mahindra** |
| **Location** | **Hyderabad, India** |
| **Duration** | **November 2018- January 2020** |
| **Role** | **Software Engineer** |

**Description**:  Oklahoma Gas & Electric Company (OG&E) is a major subsidiary of OGE Energy Corp. and is an electric utility company based in Oklahoma, providing reliable electric service to residential, commercial, and industrial users. Developed a web-based energy management system for monitoring and controlling energy usage in residential and commercial buildings. The system will allow users to track energy consumption, set usage targets, receive alerts for abnormal usage patterns, and integrate with smart energy devices.

**Responsibilities**:

* Worked closely with stakeholders to gather and analyze the requirements for the web-based energy management system, ensuring alignment with business objectives and user needs.
* Developed comprehensive test plans and test cases using Microsoft Excel, based on functional and non-functional requirements, to ensure thorough coverage of system functionalities.
* Implemented Behavior-Driven Development (BDD) practices using Cucumber, translating user stories into executable test scenarios for precise validation of system behavior.
* Developed and executed unit tests rigorously using TestNG to uphold code quality, reliability, and adherence to functional requirements.
* Executed automated functional testing using Selenium WebDriver to validate the functionality and behavior of the web-based energy management system. Developed and executed automated test scripts to verify user interface components, functionalities, and workflows across different browsers and platforms.
* Developed comprehensive test plans, test cases, and automated test scripts for embedded software, ensuring thorough validation of system functionalities and adherence to design specifications.
* Developed CI/CD infrastructure and analyzed development pull request (PR) failures, enhancing the efficiency and reliability of the development pipeline through continuous integration and delivery practices.
* Conducted API testing using Postman to verify the functionality, reliability, and performance of APIs integrated within the web-based energy management system. Developed and executed API test cases to validate data integrity, response times, error handling, and authentication mechanisms.
* Performed end-to-end testing to validate the entire workflow of the energy management system, including critical processes such as energy consumption tracking and seamless integration with smart devices.
* Managed project tasks and iterations efficiently using Jira, adhering to Agile principles to facilitate iterative development and timely delivery of features. Utilized Scrum board for task management, tracking user stories, and monitoring sprint progress, ensuring visibility and accountability.
* Engaged in daily stand-up meetings to provide progress updates, discuss impediments, and coordinate tasks with team members, ensuring continuous progress and alignment.
* Participated in Agile sprint planning sessions to define and prioritize tasks for each iteration, ensuring alignment with project goals and timelines.
* Contributed to Agile sprint reviews where team achievements and completed work were demonstrated to stakeholders, ensuring transparency and feedback incorporation.
* Maintained detailed test documentation using Confluence and Microsoft Office, ensuring clear and comprehensive records of test plans, test cases, and test execution results for traceability and future reference.
* Demonstrated over 3 years of excellent SQL experience for data testing. Verified database interactions using MySQL Workbench to ensure data integrity and correct functionality within the energy management system.
* Utilized JIRA for tracking testing progress, managing defects, and ensuring timely resolution with developers, maintaining efficiency and clarity in issue management.
* Demonstrated a good understanding of QA tools like Zephyr Scale for test management and execution, ensuring comprehensive test coverage and streamlined test processes. Managed test cases, tracked execution, and generated detailed reports to facilitate efficient quality assurance practices.
* Monitored and optimized performance and reliability of the energy management system, employing tools and techniques to ensure efficient operation and user satisfaction.
* Integrated smart energy devices with the system, enabling users to monitor consumption, set usage targets, and receive alerts for anomalies, ensuring seamless functionality and user satisfaction.
* Containerized applications using Docker, ensuring consistent deployment across diverse environments and enhancing scalability and reliability of the system architecture.
* Automated build, test, and deployment processes using Jenkins, fostering continuous integration and delivery to streamline development workflows and ensure efficient deployment of updates.
* Tracked and managed user stories and project progress meticulously using Rally and Pivotal Tracker, ensuring transparency, alignment with project goals, and effective stakeholder communication.
* Practiced Agile retrospectives to reflect on sprint outcomes, identify areas for improvement, and implement process enhancements for iterative development and continuous improvement.
* Demonstrated proficiency in MS Office products (Excel, Word, Outlook, PowerPoint) by developing comprehensive test plans and maintaining detailed test documentation. Provided regular status updates to stakeholders using MS Office tools, ensuring clear and comprehensive records of testing activities.
* Provided comprehensive support and training to end-users, facilitating effective adoption and utilization of the new energy management system. Created user manuals and training materials to enhance user proficiency and system efficiency.

**Environment:** Microsoft Excel, Cucumber, TestNG, Selenium WebDriver, Postman, Jira, Scrum Board, Confluence, Microsoft Office, Rally , Pivotal Tracker, Docker, Jenkins.

1. **Project profile:**

|  |  |
| --- | --- |
| **Project** | **AT&T** |
| **Client** | **Tech Mahindra** |
| **Location** | **Hyderabad, India** |
| **Duration** | **April 2018- October 2018** |
| **Role** | **Associate Software Engineer** |

**Description**:  AT&T provides services including wireless communications, high-speed internet, digital television and enterprise solutions such as networking, cloud services and IoT solutions. Developed and enhanced the customer support system for AT&T to improve customer service efficiency and satisfaction. The system includes features for managing customer inquiries, tracking service requests, providing self-service options and integrating with existing CRM tools.

**Responsibilities**:

* Collaborated with business analysts and stakeholders to gather and analyze software requirements for the customer support system, ensuring a comprehensive understanding of business needs.
* Assisted in translating business requirements into detailed technical specifications using Confluence, ensuring clarity and completeness for development and testing.
* Developed comprehensive test plans and test cases in Microsoft Excel based on functional and non-functional requirements, ensuring thorough coverage of system functionalities.
* Created and mapped comprehensive test plans using XMind, ensuring a clear visualization of the testing process and coverage.
* Performed various types of testing including functional, integration, system, and regression testing to ensure the quality of the software, using JIRA for tracking progress and managing defects.
* Conducted end-to-end testing to validate the entire workflow of the customer support system, including ticket creation, assignment, and resolution tracking. Leveraged VMware for setting up test environments.
* Performed integration testing to ensure seamless data flow and interaction between the customer support system and AT&T's existing CRM, using Postman for API testing and MySQL Workbench for database validation.
* Defined test specifications and strategies based on system and software specifications, ensuring a structured and effective approach to testing and validation.
* Identified, documented, and reported bugs and issues using JIRA, and worked closely with developers to resolve them, ensuring timely and effective bug fixes.
* Verified bug fixes and performed retesting to ensure issues were resolved correctly without introducing new defects, using Snagit for capturing evidence of test results.
* Maintained detailed test documentation including test plans, test cases, and test execution reports in Microsoft Office, ensuring clear and comprehensive records of testing activities.
* Provided regular status updates to the project team and stakeholders on testing progress and quality metrics, using Microsoft Office tools for documentation and reporting.
* Logged time spent on various testing activities using Harvest, providing insights into resource allocation and productivity.
* Managed and tracked changes to test scripts and documentation using Git, ensuring version control and collaborative work among team members.
* Assisted in creating user manuals and training materials for customer support agents, ensuring they could effectively use the new system.
* Demonstrated comfort with cold outreach via phone, email, and social media to engage potential buyers within the target market. Effectively communicated with stakeholders to gather and analyze requirements, ensuring a comprehensive understanding of business needs.

**Environment:** Confluence, Microsoft Excel , XMind , JIRA, VMware, Postman, MySQL, Workbench, Snagit, Microsoft Office, Git, Harvest.

**EDUCATION**:

* Master’s - Computer Science - University of Central Missouri, Missouri - May 2024
* Bachelor’s - Electronics and Communication Engineering - Jawaharlal Nehru Technological University, Hyderabad, India - May 2017

**ACADEMIC ACHIEVEMENTS:**

Led the development of “Recipe Management App” as Project Leader under the Course: Advanced Database Systems during my Master's program, overseeing Agile project management, feature development (including recipe creation and UI design), and ensuring timely project completion and academic recognition.

**Project Management:** [Github](https://github.com/AmulyaPabbu?tab=repositories)

* Successfully managed this project using GitHub for version control and Trello for project management.
* Maintained project privacy on GitHub to prevent unauthorized access; willing to provide access upon request.

**Certifications:**

|  |  |  |
| --- | --- | --- |
| **Certification** | **Issuer** | **Date** |
| Scrum Fundamentals Certified (SFC) | SCRUMstudy - Accreditation Body for Scrum and Agile | June 2024 |
| Selenium Projects with Python | Great Learning | July 2024 |
| Docker Projects | Great Learning | July 2024 |