

# Archana M

SENIOR SOFTWARE AUTOMATION ENGINEER

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Location: KL, Malaysia

## PROFESSIONAL SUMMARY

A highly skilled and results-driven QA professional with 5+ years of experience specializing in functional testing of web and mobile applications. Skilled in test planning, designing detailed test cases, executing manual tests, defect reporting, and collaborating with cross-functional teams to ensure product quality. Strong understanding of SDLC, STLC, Agile, and Waterfall methodologies. Proven ability to simulate real-world scenarios and identify bottlenecks, ensuring scalable and high-performing systems. Expertise in API testing, test automation using Selenium Web-driver with Java, and CI/CD integration. Adept at collaborating across teams to deliver quality applications in Agile environments.

## CORE COMPETENCIES

- Functional Testing, Test Automation Strategy & Planning, Test Case Creation & Execution, User Acceptance Testing (UAT), End-to-End Testing, Performance Testing, Load Testing, Stress Testing.
- Regression Testing & Test Coverage, Test Documentation & Reporting, Agile Methodology & SDLC
- Automation Testing Tools: **Selenium Web-driver with Java**
- **API Testing** using **Postman (REST, SOAP)** and **Swagger documentation**
- Programming Languages: Core Java
- Frameworks: **Cucumber** and TestNG
- **CI/CD**: Functional/performance integration (Jenkins, Bamboo)
- Version Control: **Git, GitHub**, GitLab.
- Defect/Test case Management Tools: JIRA – ZEPHYR, Confluence, HP- ALM
- IDE – IntelliJ IDEA, **Katalon Studio**, Eclipse
- Cross Browser: Selenium GRID
- Database Testing: SQL, SOQL
- Manual Testing: Test Matrix, RTM, Test Summary Report, Data Base Testing, Agile, Salesforce, Salesforce Sales Cloud, Smoke, Sanity on the Application Under Test, Page Object Model (POM), Analytical and Problem-Solving, Debugging Techniques, Competitive, Cross-functional Team Collaboration.

## Key Qualifications & Experience:

- Collaborate with business analysts, developers, product managers and product owners to understand application requirements and functionalities.
- Analyzed requirements and created detailed test scenarios and test cases for functional testing.
- Collaborated with business and development teams to design automation strategies aligned with project goals and ROI, enhancing efficiency by 30%.
- Conducted API testing with **Postman** and Developed, maintained a test automation framework using integrated with **TestNG** and **Cucumber**.
- Developed and maintained automated test scripts for API and database testing, ensuring smooth integration and data integrity across systems.
- Automated RESTful API test cases for CRUD operations, authentication (OAuth2.0), and performance validations using **Postman**, reducing manual testing time by 60%.
- Integrated **test cases into CI/CD pipelines** using Jenkins to enable automated performance regression testing.

## Work Experience & Projects

*Propitious Technologies, KL, Malaysia*

**SENIOR SOFTWARE AUTOMATION ENGINEER**

**11-2024 – Till date**

### **Project: OCBC Bank | Domain: Banking**

OCBC Bank Malaysia is part of the OCBC Group, which is one of the largest financial services groups in Southeast Asia. They focus on offering innovative digital banking solutions and maintaining a strong presence in the region.

**Automation Tool: Selenium Web-driver | Cucumber Framework [IntelIJ IDEA] Worked as manual tester using the jira and created test cases in zephyr**

- Analyzed requirements and created detailed test scenarios and test cases for functional testing.
- Designed and executed comprehensive test plans and automation scripts using selenium, achieving 98% test coverage across 5 key modules based on business requirements, leading to a 20% reduction in post-release defects and Hands-on experience with software product test planning, execution, following up on defects.
- Implemented reusable utility methods for API test suite in Postman, covering response schema validation, status codes, headers, and payload assertions.
- Continuously improve testing strategies and processes to achieve maximum efficiency and test coverage.
- Utilized selenium for UI and performance test automation across 5+ core modules, achieving 98% test coverage and significantly reducing manual effort. Achieved 95% test coverage, identifying and resolving critical issues.
- Conducted end-to-end testing of web applications to ensure compliance with business requirements. Performed back-end validations using SQL queries and monitored data integrity across environments.
- Simulated concurrent virtual users (10000+) to validate system scalability under peak usage scenarios. Provided feedback on application usability and functionality to improve user experience
- Conducted end-to-end testing of web applications to ensure compliance with business requirements.
- Logged and tracked defects using JIRA, worked closely with developers for resolution.
- Prepared and maintained test documentation and status reports.
- Reduced defect leakage by 25% through rigorous functional test planning.
- Successfully tested 5 modules with minimal post-release issues.



**SSINTEK**

**QA Engineer (Automation)**

**06-2023 – 09-2024**

### **Project: [Telstra](#) | Domain: Telecommunication**

Telstra is Australia's leading telecommunication and technology company, offering a full range of communications services and competing in all telecommunications markets.

**Automation Tool: Selenium WebDriver [IntelliJ Idea, Cucumber Framework] Worked as manual tester using the jira and created test cases in zephyr**

- Created BDD test cases using Selenium with Cucumber, resulting in a 25% Continuous improvement in the clarity and collaborating with QA Engineers to design, maintain, and update existing test scripts, ensuring they remain relevant and effective in identifying issues throughout the development cycle
- Developed and executed automated test scripts using Selenium, J Unit, and TestNG, BDD Cucumber framework for both functional and regression testing

- Assisted in executing manual test cases and documented test results.
- Designed and executed comprehensive mobile app and API test plans for high-traffic applications in Agile environment
- Managed existing functionality through comprehensive regression testing using Bamboo CI/CD, resulting in a 15% reduction in post-release issues and automating JIRA tickets using Robot account.
- Identified and reported over 50 defects, leading to a 30% increase in overall application quality.
- Aligned testing activities with project objectives by preparing test plans, test scenarios, and reviewing test cases with the team, resulting in a 90% alignment rate
- Collaborated with cross-functional teams to define test plans, strategies, and deliverables for automation projects, contributing to a 25% improvement in release cycle times.
- Supported senior QA engineers in manual testing activities., achieving a 100% on-time delivery rate.

***ioTech Designs Private Limited***  
***QA Engineer***

***06-2022– 09-2022***

**Projects: IOTech.biz/iSmartAccess | Domain : Networking**

IOTech.biz/iSmart Access is a based Axxess.ai website which attracts all types of people. The module which are available are “Rule engine”, “Update Queue”, “Access control”, “Status”, “System user”, “Location”, “Devices And Modules”, and “Reports and Analytic

***Automation Tool: Selenium with Java, Cucumber BDD Framework***

- Clarified project requirements by analyzing BRD documents and raising over 15 queries with the project business analyst, leading to a 10% reduction in requirement ambiguities.
- Prepared test documentation including test cases and test execution reports.
- Executed test cases and logged defects for basic web applications.
- Supported parallel execution and dynamic test data creation for 100+ APIs, including login, user management, and payment services.
- Worked in Agile **Methodologies**, participating in sprint planning and daily stand-ups to ensure seamless integration of automated tests with development efforts.
- Expertise in manual testing techniques and methodologies, performing functional, usability, compatibility, and exploratory testing to ensure the overall quality and user experience of software applications.
- Verified accurate identification and interaction in Systematized tests by inspecting the X-path of web Elements accuracy leading to a 10%
- Assisted in writing basic Selenium test cases for login functionality during internal automation workshops.
- Proficient in designing and executing manual test cases, defect reporting, and working within Agile teams.

***Systheon Technologies***  
***Software Engineer***

***01-2020– 06-2022***

**Projects: KOGAN | Domain :Ecommerce**

Kogan.com is an Australian portfolio of retail and services businesses including Kogan Retail. The project is Australia based E-commerce Website which Engages all types of peoples. The module which are available are "Footwear", "Clothing", "Shoes", "Accessories", "Bags". It is an online shopping portal which provides excellent online shopping experience for the users.

***Automation Tool: Selenium with Java, Cucumber BDD Framework***

- Secured accuracy and completeness in testing scope by analyzing requirements in BRDdocuments and raising clarifications with the project business analyst, reducing requirement ambiguities by 10%.
- Generated testing accuracy and coverage by reviewing test scenarios and identifying test cases for manual and automated testing, leading to a 20% increase in test coverage.

- Aligned testing activities with project requirements by preparing test plans, test scenarios, and reviewing test cases with the team, achieving a 95% alignment rate.
  - Preserved high levels of test accuracy by executing test cases using the TestNG framework, contributing to a 25% reduction in test execution errors.
  - Facilitated transparent communication and timely issue resolution by reporting defects and providing daily status updates using JIRA, reducing the average defect resolution time by 30%.
  - Contributed to team collaboration and continuous improvement by participating in Agile ceremonies, enhancing team productivity by 20%.
  - Provided detailed insights into testing outcomes and areas for improvement by preparing test execution reports and defect reports, leading to a 15% increase in stakeholder satisfaction.
  - Guaranteed clarity and consistency in testing practices by documenting testing processes and methodologies, improving onboarding efficiency for new team members by 25%.
  - Backed informed decision-making by communicating with the Test Manager and providing timely updates during status meetings, leading to a 10% improvement in project management effectiveness.
- **PROJECT: FREEDOMINSURE | Domain: Insurance**

Freedominsure is a UK based insurance website which Captures all types of people. The module which are available are “policy creation”, “policy upgrade”, “policy downgrade” and “policy cancel”.

**Worked as a manual tester using Jira and created test cases in zephyr**  
**Automation Tool: Selenium WebDriver [IntelliJ Idea, TestNG Frameworks]**

Performed end-to-end manual testing of mobile and web applications to ensure functionality, usability, and performance met specified requirements.

- Designed, executed, and maintained test cases for various modules based on user stories, BRDs, and FSDs.
- Enhanced regression and functional testing accuracy by 15% by preparing test scenarios and writing automation scripts using the Cucumber framework.
- Validated both front-end and back-end components through systematic test coverage. Conducted regression testing during every release cycle to ensure existing functionalities remain unaffected.
- Verified accurate identification and interaction in Systematized tests by inspecting the X-path of web elements, leading to a 10%
- Facilitated timely defect resolution by identifying bugs and reporting defects to the development team through JIRA, reducing the average defect resolution time by 30%.
- Managed existing functionality by performing regression testing, resulting 15% reduction in post-release issues.

## Education

2017-2020 Sri Kanyaka parameshwari arts and science college for women in Chennai