

MURUGANANTHAM S

Title: Associate | **M:** 8883972221 | **Email:** murugananthams1612@gmail.com

Portfolio: https://muruganantham1612.github.io/Muruganantham_S/

Professional Summary

Automation Test Engineer with 3 years of experience in automation and manual testing. Proficient in Selenium, WebDriver IO, Playwright, Java, and JavaScript to develop and execute robust test scripts. Expertise in functional testing, regression testing, smoke testing, and API testing. Demonstrated success in optimizing testing processes, achieving a 75% reduction in execution time, and enhancing overall test efficiency. Strong focus on continuous improvement and delivering high-quality software solutions.

Technical Skills

- **PL** : Java (Core, Java 8), JavaScript
- **Testing Tools** : Selenium, WebDriver IO, Playwright, Postman, AutoIt, TestNG, GitHub Copilot
- **Testing Types** : Automation Testing, Manual Testing, API Testing, Regression Testing, Smoke Testing, Functional Testing
- **Version Control** : Git (GitHub)
- **Frameworks** : Cucumber BDD, UTAF
- **IDEs** : Eclipse, Visual Studio Code, Postman
- **Bug Tracking** : Jira

Professional Experience

Cognizant Technology Solutions –Associate (*Automation Test Engineer*)

Current project (November 2024 - Current)

- Led the successful restoration of 4 smoke suites and 2 regression suites for 2 sites, which had been non-functional for 4 years.
- Resolved complex issues in both standalone and interlinked suites, ensuring consistent execution across all environments.
- Implemented dynamic conditions to handle varying site behaviors, preventing false negatives and ensuring accurate test results.
- Integrated the entire automation suite into CI/CD pipelines, improving test execution efficiency and consistency across builds.
- Worked on optimizing test execution, reducing runtime, and ensuring reliable outcomes during critical release cycles.

Project 2 (*August 2023 – November 2024*)

- Conducted **manual testing** for **smoke**, **regression**, and **API testing** to ensure application quality.
- Developed **automation scripts** for new functionalities, achieving a **75% reduction in execution time** through module independence.
- Automated **350+ test cases**, improving test coverage and reducing manual testing efforts.
- Utilized **Java**, **Selenium**, **AutoIT**, **Postman**, and **TestNG** in a project-level framework (UTAF).
- Integrated **GitHub Copilot** to accelerate development, debugging, and error resolution.

Project 1 (*June 2022 – August 2023*)

- Developed comprehensive **regression scripts** from scratch using **WebDriver IO** in **Visual Studio**, ensuring thorough test coverage.
- Created methods to dynamically interact with **UI elements** based on **DOM element tags**.
- Consolidated multiple **XPath queries** into a single reusable method, improving test execution efficiency by **35%** and reducing maintenance effort.
- Automated **300+ test cases**, significantly improving test coverage and reducing manual testing efforts.
- Standardized element interaction methods, improving test suite management and simplifying updates.

Awards

- **Always Striving, Never Settling** (Q3 2024): Recognized for continuous improvement and exceptional contributions.
- **Stellar Achiever** (Q4 2023): Awarded for outstanding performance and consistent delivery of high-quality results.

Achievements

- **AI Integration:** Leveraged **GitHub Copilot** to improve code development and error resolution, enhancing overall productivity.
- **Regression Testing Optimization:** Reduced testing time by 75%, from 40 hours to 8-12 hours, significantly improving efficiency.
- **CI/CD Integration:** Integrated **smoke and regression tests** into **CI/CD pipelines**, automating testing during deployments.
- **Dynamic UI Interaction:** Developed methods for flexible automation scripts based on **DOM elements**, improving adaptability.
- **Revived Test Suites:** Successfully **revived 4 smoke suites and 2 regression suites for 2 sites**, which had been non-functional for 4 years.
- **Improved Test Accuracy:** Achieved **100% execution success** in 2 standalone smoke suites by implementing dynamic conditions to prevent false failures.
- **Enhanced Regression Suite Stability:** Restored and optimized the regression suite, which included **2 interlinked smoke suites**, significantly improving its stability.

Education

Bachelor of Engineering (B.E.) in ECE
Kongu Engineering College, Perundurai | Graduated: June 2022