

Dasun Navindu Dewnith

Software Quality Assurance Engineer | QA Automation Enthusiast

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Medium: <https://medium.com/@dasunnavindu2001>



Personal Summary

QA Automation Engineer with hands-on expertise in designing, developing, and maintaining automated test frameworks using Playwright and Selenium WebDriver. Skilled in automating end-to-end test scenarios, implementing test design patterns such as Page Object Model (POM), and integrating tests into CI/CD pipelines using Jenkins and Docker. Experienced in API testing (Postman, Newman, REST Assured), regression testing, and ensuring high reliability and scalability of automated test suites. In addition, skilled in manual testing, including functional, regression, and exploratory testing, designing and executing test cases, and reporting defects with clarity. Proficient in QA methodologies, STLC, SDLC, and Agile (Scrum) practices. Demonstrates a strong focus on improving test efficiency, continuous integration, and delivering high-quality software with minimal manual effort.

Core Skills

- Manual Testing, Regression, Smoke & Sanity Testing
- Test Case Planning/Design & Defect Management
- API Test (Postman/Newman, REST Assured)
- Test Automation (Playwright, Selenium WebDriver)
- Agile Methodology (Scrum, Sprint Planning)
- SDLC & STLC
- Database Testing (Oracle, MySQL, PL/SQL, MongoDB)
- Version Control (Git, GitHub, GitLab, Bitbucket)
- CI/CD Integration (Jenkins, Docker, AWS/Azure/GCP)
- Cross-Browser & Cross-Platform Testing
- Performance Testing (Apache JMeter, K6)
- Java/ Java Script/ Type Script/ Python/ Groovy

Education

Bachelor of Science (Honors) in Computer Science

University of Kelaniya, Sri Lanka

Major: Computer Science | Minor: Statistics & Pure Mathematics

Aug 2022 - Feb 2026

Bandaranayake College Gampaha, Sri Lanka

GCE Advanced Level Examination - 2Bs and 1C in Physical Science stream

GCE Ordinary Level Examination - 7As and 2Bs

Jan 2012 – Nov 2020

Work Experience

Quality Assurance Automation Intern - iLabs (Pvt) Ltd

Project: [Cloud of Goods](#) (Rental Website)

Aug 2025 - Mar 2026

- Designed and maintained automated test suites for critical flows, ensuring reliability of key features under regression cycles.
- Automated end-to-end test scenarios including authentication and checkout, reducing manual testing effort by 30% to 40%.
- Executed API testing with Postman/Newman covering multiple endpoints, ensuring data consistency and backend reliability.
- Created and maintained 400+ test cases for manual and automated testing.
- Identified and reported critical defects, contributing to improved application stability.
- Gained hands-on experience with the complete Jira workflow, including creating and executing test cases, logging and tracking defects, and participating in bug triage meetings with the development team.

Projects

Playwright Agent Demo – E2E Test Automation Framework

Technologies: Playwright, TypeScript, Node.js, MCP (Model Context Protocol)

<https://github.com/Dasun169/playwright-agents-demo.git>

- Built an AI-assisted Playwright test automation framework using MCP (Model Context Protocol), implementing Planner, Generator, and Self-Healing agents, improving test maintenance and reliability.
- Automated 30+ E2E test scenarios (auth, cart, checkout) with cross-browser and parallel execution.
- Improved test maintenance by introducing AI-based self-healing capabilities.

Playwright Test Automation Framework – SauceDemo

Technologies: Playwright, TypeScript, Allure Reports, Docker, Jenkins, GitHub

<https://github.com/Dasun169/playwright-demo-CI>

- Automated 29 E2E test cases for e-commerce workflows, reducing manual regression effort by 30%
- Implemented Page Object Model (POM) for maintainable and reusable test design.
- Automated end-to-end flows (authentication, checkout) with tagged execution for running the test cases based on the scope (“@smoke”, “@regression”, “@sanity”)
- Integrated Allure reporting for detailed test insights and analytics.
- Enabled cross-browser testing. (Chrome, Firefox, WebKit, Edge, mobile)
- Built CI/CD pipeline using Jenkins & Docker for continuous automated testing.
- Added retry mechanism and structured logging (Winston) to improve reliability and debugging.

Selenium Test Automation Framework – Web Application Testing

Technologies: Java, Selenium WebDriver, TestNG, WebDriverManager

<https://github.com/Dasun169/selenium-tutorial-basic.git>

- Developed a UI test automation framework using Selenium WebDriver and TestNG following the Page Object Model (POM) architecture.
- Automated key user workflows with dynamic test data, improving test reliability and repeatability.
- Implemented modular test structure, centralized locators/configurations, and integrated WebDriverManager for efficient browser driver management.

DummyJSON API Testing – CI/CD Automation Pipeline

Technologies: Postman, Newman, Jenkins, Node.js, HTML Extra Reporter

<https://github.com/Dasun169/dummyjson-api-testing.git>

- Validated 15+ API endpoints with 65+ assertions using Postman & Newman.
- Implemented a Jenkins CI/CD pipeline with automated test execution, reporting, and artifact archiving.
- Generated HTML reports and email notifications with secure credential handling.

Soft Skills

- Strong documentation and bug reporting
- Proactive learner & collaborative team player
- Analytical thinking and problem-solving
- Comfortable working remotely with global teams
- Strong written and spoken English

Certifications

Introduction to Selenium | June 2025

[Skillup Certificate](#) | [Simplilearn](#)

Introduction to JMeter | Jan 2026

[Skillup Certificate](#) | [Simplilearn](#)

KodeKloud Engineer – Jenkins (Level I) | Aug 2025

[KodeKloud Engineer](#) | [Jenkins \(Level I\)](#)

Mabl Certification: Foundations | Mar 2026

[Certificate for mabl Skills: Foundations](#)

Volunteer Experience

President at Statistics and Computer Science Student Association - UOK

Aug 2024 – May 2025

Member at AWS Cloud Club – UOK

Oct 2024 – Feb 2026

References

References are available upon request.