

Nigel Mulholland

Test Automation Expert • Quality Engineering Lead

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PROFESSIONAL SUMMARY

Test automation engineer with 7+ years of hands on experience architecting scalable automation solutions for complex enterprise platforms currently leading software quality engineering at VitalHub Innovations Lab. Specializes in building and modernizing automation frameworks using Selenide, Playwright, Cucumber, and REST Assured, with deep CI/CD integration across Jenkins and Azure DevOps. Drove significant improvements in release efficiency for a major healthcare client by integrating test automation into the DevOps pipeline and streamlining delivery processes.

AREAS OF EXPERTISE

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|-----------------------------------|---|
| CORE SKILLS | Test Automation Architecture Framework Design & Modernization CI/CD Integration UI Automation API Automation Performance Verification Testing Accessibility Testing (WCAG) Code Reviews Mentoring & Team Leadership Agile Scrum |
| LANGUAGES & FRAMEWORKS | Java JavaScript TypeScript Selenium WebDriver Playwright Cypress REST Assured Cucumber TestNG Appium Katalon Studio CodeceptJS |
| TOOLS & PLATFORMS | Jenkins AWS Azure DevOps Maven Git Bitbucket GitHub SourceTree Buddy Postman JMeter BrowserStack SauceLabs JIRA Confluence IntelliJ IDEA VS Code Docker Selenium Grid |

PROFESSIONAL EXPERIENCE

Lead – Software Quality Engineering, VitalHub Innovations Lab | Colombo 07 **Sep 2024 – Present**

Project: Induction HealthCare. Spearhead test automation strategy and delivery for an enterprise healthcare platform.

- **Team Leadership:** Lead the test automation team to deliver high quality solutions across an enterprise healthcare platform, owning framework direction and delivery standards.
- **Performance Testing Framework:** Architecting an AWS native PVT framework using Playwright on ECS Fargate, enabling large scale concurrent browser session load testing of the healthcare platform without local machine constraints.
- **Code Quality:** Conduct comprehensive code reviews to enforce best practices, providing constructive feedback that measurably improves code efficiency, robustness, and maintainability.
- **Mentorship:** Mentor and guide junior automation engineers through structured 1:1s and pairing sessions, fostering professional growth and deepening technical expertise across the team.
- **Stack:** JavaScript, Playwright, CodeceptJS, Git, Buddy CI/CD, AWS.

Associate Lead – Software Quality Engineering, VitalHub Innovations Lab | Colombo 07 **May 2023 – Aug 2024**

Projects: HICOM, Synopsis, Intouch With Health. Led automation architecture and CI/CD integration across multiple enterprise healthcare clients.

- **Release Velocity:** Reduced average release cycle time by 30% for a major client through implementation of automated testing and continuous integration practices.
- **API Automation:** Used REST APIs to generate test data for end-to-end UI automation, and to publish Cucumber test scenario results directly into Azure DevOps Test Plans for product owner visibility.

- **Accessibility Testing:** Introduced an organization-wide accessibility testing strategy using Axe Core and WCAG, embedding accessibility checks into the automation pipeline.
- **Framework Architecture:** Led the creation and execution of scalable test automation architectures for a diverse clientele, ensuring seamless CI/CD integration and faster time-to-market.
- **Training & Enablement:** Directed a training initiative for 15+ QA and DevOps professionals, driving substantial team performance gains and widespread adoption of industry best practices.
- **Stack:** Java, Selenium, Playwright, Cucumber, Appium, Maven, Git, Jenkins, Azure DevOps, JIRA, IntelliJ IDEA.

**Senior Software Quality Engineer – Test Automation, VitalHub
Innovations Lab | Colombo 07**

Sep 2022 – Apr 2023

Projects: MCAP, Oculys, Synopsis, S12, Intouch With Health. Designed automation strategies and CI/CD pipelines from the ground up.

- **Testing Efficiency:** Cut testing effort by 50% by designing and implementing a Cypress + Cucumber automation framework with Allure reporting, giving developers and testers fast regression feedback.
- **CI/CD Integration:** Set up Jenkins pipelines for automated test execution with scheduled jobs and email notifications, and configured Azure DevOps pipelines to update ADO Test Plans in real time.
- **Failure Triage:** Troubleshot automation failures across multiple environments, reviewed reports to surface critical issues, and analyzed application weaknesses to reduce defect leakage.
- **Capability Expansion:** Explored non-functional and security testing to expand the team's testing capabilities and harden application robustness.
- **Stack:** Java, Selenium WebDriver, Cypress, Cucumber, REST Assured, TestNG, Maven, Postman, Jenkins, Bitbucket, AWS, JIRA.

**Software Quality Engineer – Test Automation, VitalHub Innovations
Lab | Colombo 07**

Mar 2021 – Aug 2022

Projects: TREAT, Transforming Systems.

- **Test Strategy:** Executed regression, integration, and API testing across multiple workstreams, and defined the Git strategy for the CI/CD and automation testing team.
- **Framework POC:** Built a Selenium + Java BDD automation framework as a proof of concept to compete against the existing commercial framework, and enhanced the in-house Katalon Studio BDD framework.
- **Stack:** Katalon Studio, Groovy, Gradle, Selenium WebDriver, REST Assured, TestNG, Postman, Newman, Jenkins, JIRA.

Software Quality Engineer, Zilingo | Colombo 07

Jan 2020 – Feb 2021

Products: OneApp, FA App, Dashboard.

- **Stability & Coverage:** Performed regression and integration testing across the OneApp, FA App, and Dashboard products, ensuring functional stability across releases.
- **Critical Defect:** Identified a critical defect overlooked during requirement gathering, communicated it with diagrams to dev and product, and collaborated on a sustainable long-term fix — a milestone for a then-novice QA team.
- **Test Data Tooling:** Wrote a Postman script to generate large volumes of test data for manual testing purposes, removing a recurring bottleneck.
- **Stack:** Postman, Protractor, JIRA, manual exploratory and functional testing.

Associate Software Quality Engineer, nCinga Innovations | Colombo 07

Jul 2019 – Dec 2019

Products: Mobile App, FA App, Dashboard App.

- **Ownership:** Owned testing and production verification of the Dashboard and BA App, executed mobile regression, and reported detailed test results to stakeholders for continuous improvement.
- **Stack:** Postman, Protractor, Appium, JIRA, manual exploratory and functional testing.

Intern QA Engineer, nCinga Innovations | Colombo 07

Jan 2019 – Jun 2019

Product: nFactory – Sample Room.

- **Foundations:** Performed manual testing to identify defects, collaborated with developers on functionality, documented bugs in JIRA, and contributed to daily stand ups and test planning.

EDUCATION

Bachelor of Science, University of Sri Jayewardenepura, *Sri Lanka (2016 – 2019)*

CERTIFICATIONS

ISTQB Certified Tester - Foundation Level, ISTQB | SL-CTFL-2101-260