



## MADHURYA LIYANAGE

### SENIOR QUALITY ASSURANCE ENGINEER

Dedicated, quality-oriented, and passionate **Senior Quality Assurance Engineer** who leverages excellent leadership skills, evidenced by a history of establishing and building a high-performing QA team, to ensure innovative tools and frameworks. Promotes efficient manual and automated testing to deliver quality software and achieve high satisfaction. Offers a detail-oriented mindset to identify automation opportunities, reducing redundancy and costs while enhancing coverage and expediting release cycles. Ensures improved strategic direction through comprehensive test plans, innovative solutions, and proactive cross-functional coordination.

### CAREER HIGHLIGHTS

- Initiated and set up the QA department at AtLink Communications, resulting in improved quality assurance.
- Leveraged Cypress to design, develop, and execute test automation increasing testing speeds by 5 - 10 times and reducing regression tests from a week to a few hours.
- Earned the Computer Information & Technology Council (CINTEC) Award at the University of Moratuwa for obtaining the highest marks for the final year project as the best Computer Science & Engineering graduate.

### SKILLS & EXPERTISE

Test Plans | Quality Management Systems | Product Development | Variability Mitigation | Defect Management  
Solution Development | Customer Relations | Cross-Functional Coordination | Quality Assurance | Product Lifecycle  
Process Development | Deployment Management | Metrics Development | Report Generation | Strategic Direction

### PROFESSIONAL EXPERIENCE

#### QUALITY ASSURANCE LEAD | Sartography | Staunton, VA 2023 – Present

- Managed all quality assurance aspects, including test planning, estimation, design, document creation and execution, defect management and reporting, client handling, team management, and releases.
- Performed functional and non-functional testing across Unit, Integration, System, Acceptance, Regression, Smoke/Sanity, Exploratory, Ad hoc, Performance, and Usability testing.
- Leveraged Cypress to design, develop, and execute test automation increasing testing speeds by 5 - 10 times.
- Created and tested BPMN test models using the internal unit test framework, ensuring high quality.
- Identified and mitigated impending risks to resolve potential compromise to project and test deliverables.
- Engaged and liaised with the team members, including the development team, BPMN authors, project managers, and client distributed teams (business analysts, BPMN authors, project managers, and infrastructure teams).

#### QUALITY ASSURANCE LEAD | Colombo | Sri Lanka & Houston, TX 2005 – 2021

##### QA Lead / Project Manager / Software Architect (2018 – 2021)

- Developed and established the 7 member quality assurance process and team for the company.
- Developed and introduced quality assurance frameworks, tools, and technologies by analyzing requirements, specifications, and technical design documents to ensure timely feedback and proper procedures.
- Created comprehensive test plans, scenarios, and cases with in-depth estimates to identify, capture, and report defects, analyze test results, and prepare release notes to approve releases.

##### Lead QA Engineer / QA & Process Manager (2017 – 2020)

- Automated test case design, implementation, review, and management across 3 test environments.
- Enforced 100% adherence to business requirements and specifications for software by managing quality activities within the QA department, including delegating roles and rectifying identified risks.
- Tested 15+ web, mobile, and desktop applications across iOS, Android, UWP, and Hybrid from different domains for small to large-scale products.

- Represented the SL management team while managing company-wide QA functions and reporting to the CTO.
- Led 15+ engineers to implement, test, and deliver reliable and scalable software solutions.
- Achieved 100% client satisfaction by managing requirements, scope, resources, schedules, and deadlines.

## ADDITIONAL EXPERIENCE

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**Technical Lead** at Colombo: 2010 – 2013

**Senior Software Engineer** at Colombo: 2007-2010

**Software Engineer** at Colombo: 2005 – 2007

## PROJECTS

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**Senior QA Engineer / QA Lead | Spiffworkflow | Sartography**

2023 – 2024

- Supported a \$1.7M software deployment to the Production Environment for Status as the quality lead.
- Ensured that no bugs affected end-users to foster proper releases and high user satisfaction.

**Lead QA Engineer / QA Lead | Symbiosis | AtLink Communications**

2017 – 2021

- Ensured strict adherence to quality standards for all deliverables via manual and automation testing.
- Led the team by providing strategic direction, coordinating test and resource planning, and identifying scope.
- Ensured strict budget adherence under a \$15M+ budget for Axis, LLC for the 10-year-long project.

**QA Lead | COH Vendor Portal | AtLink Communications**

2020 – 2021

- Leveraged a \$1M budget to deliver an innovative Vendor Portal to the City of Houston.
- Performed functional and non-functional testing across test levels to ensure proper test plans and documents.
- Managed and led the QA team and test deliverables to ensure strict deadline adherence and quality software.

## EDUCATION & TRAINING

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**University of Moratuwa**, Moratuwa, Sri Lanka

Bachelor of Science (Hons) in Computer Science & Engineering; GPA: 3.67

- Awards/Honors: CINTEC Award – Best Computer Science & Engineering Graduate in final project / Dean's List

## TECHNICAL SKILLS

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Microsoft Office (Word, Excel, PowerPoint, Outlook, Access, Publisher) / Cypress / Protractor / Selenium / JUnit / SoapUI / Postman / JMeter / WAVE / Lighthouse / Java / J2EE / JSP / Struts2 / Node.js / PHP / C# / Swift / Objective C / HTML 5 / CSS / JavaScript / JQuery / TypeScript / Angular / MySQL / MS SQL Server / SQLite / Agile / Waterfall Android / iOS / UWP / BPMN / XML / XSL / XSLT / Trello / Monday.com / Jenkins / Apache FOP / Adobe Flex / AWS EC2 / S3 / Eclipse / Visual Studio / Visual Studio Code / XCode / Android Studio / Git / SVN / Visual SourceSafe / WildFly / IIS / Jboss / Tomcat

## LANGUAGES

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English – Fluent / Sinhala – Fluent

## HONORS & AWARDS

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16 Years of Dedicated Service – AtLink Communications (2021)

## COMMUNITY ENGAGEMENT

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Rana Viru Seva Authority – Education Project: Educational Sponsor

## INTERESTS

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Traveling, Photography, Videography