



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

Quality Assurance | Quality Management | Product Development | Variability Mitigation | Defect Management
Solution Development | Customer Relations | Cross-Functional Coordination | Test Plans | 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, execution, document creation, defect management and reporting, client handling, team management, and releases.
- Performed functional and non-functional testing - 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's distributed teams (business analysts, BPMN authors, project manager and infrastructure team).

QUALITY ASSURANCE LEAD | AtLink Communications | Sri Lanka & Houston, TX 2005 – 2021

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

- Created comprehensive test plans, scenarios, test cases and estimates. Identified, captured, and reported defects, analyzed test results, prepared release notes and approved releases.
- Managed status reporting for clients and project managers by collaborating with the local and offshore development and QA teams to align strategies and liaise with project stakeholders.
- Achieved 100% client satisfaction by managing requirements, scope, resources, schedules, and deadlines.
- Managed talent acquisitions, including training, development, and reviews for 15+ employees.
- Supported the Development and QA teams with 15+ members to implement, test, and deliver reliable and scalable software solutions via tailored guidance and supervision.
- Conducted routine code reviews to ensure 100% adherence to code quality standards.
- Conducted employee evaluations and performance reviews to identify areas for improvement.

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

- Developed and established the 7 member quality assurance team and process for the company.

- Developed and introduced quality assurance frameworks, tools and technologies.
- Analyzed requirement specifications and technical design documents to ensure timely feedback and proper procedures.
- Automated test case design, implementation, review, and management across 3 test environments.
- Tested 15+ Web, Desktop and Mobile(iOS, Android, UWP, Hybrid) applications from different domains for small to large scale products
- 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.
- Represented the SL management team while managing company-wide QA functions and reporting to the CTO.

ADDITIONAL EXPERIENCE

Software Architect AtLink Communications, Sri Lanka & Houston, TX	2013 – 2017
Technical Lead AtLink Communications, Sri Lanka & Houston, TX	2010 – 2013
Senior Software Engineer AtLink Communications, Sri Lanka & Houston, TX	2007 – 2010
Software Engineer AtLink Communications, Sri Lanka & Houston, TX	2005 – 2007

PROJECTS

Senior QA Engineer / QA Lead Spiffworkflow Sartography	2023 – 2024
<ul style="list-style-type: none"> ▪ 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
<ul style="list-style-type: none"> ▪ 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
<ul style="list-style-type: none"> ▪ 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

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 year project / Dean's List

TECHNICAL SKILLS

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 / Microsoft Office (Word, Excel, PowerPoint, Outlook, Access)

LANGUAGES

English – Fluent / Sinhala – Fluent

HONORS & AWARDS

16 Years of Dedicated Service – AtLink Communications (2021)

COMMUNITY ENGAGEMENT

Rana Viru Seva Authority – Education Project: Educational Sponsor for 15 years

INTERESTS

Traveling, Photography, Videography