

Summary

Experienced QA leader with 14+ years in software testing, automation framework development, and quality engineering across diverse domains. Proven expertise in architecting robust solutions using Selenium, Playwright, Cypress, Appium, and Robot Framework. Adept in CI/CD integrations (GitLab, Jenkins, Docker), API testing (Rest Assured, Postman), performance testing (JMeter, Gatling), and cloud-based delivery (AWS). Specialized in Generative AI testing, enabling intelligent, prompt-driven automation and AI-assisted validation workflows. Strong leadership experience in agile environments, test governance, and driving shift-left testing strategies. ISTQB and AWS Certified with deep passion for delivering high-quality software through automation excellence.

Skills

Selenium WebDriver

TypeScript

Cypress

JavaScript

BDD

Page Object Model

Cross-browser testing

Web performance testing

Mobile testing

API testing

Git

TDD

Mocha

Playwright

Generative AI

Education

Rajalakshmi Engineering College, Anna University

B Tech, CGPA: 71

May 2008

Chennai

Experience

Altimetrik India Pvt Ltd, Chennai

Staff Engineer – Quality Engineering

Aug 2024 - Present

Chennai

- Client: Nasdaq

Project: Post-Trade Processing Modernization – focused on automating visual and functional workflows to modernize critical post-trade infrastructure.

Leading test automation initiatives using Playwright as the core tool for functional and visual testing.

Proposed and implemented an approach to test applications from a UI/UX perspective, enhancing visual validation strategies.

Utilizing GitHub Copilot to accelerate test script creation and bug fixes through natural language prompts, increasing test development productivity by 70%.

Collaborating with AI Engineers to build intelligent agents that can interpret manual test case descriptions and auto-generate Playwright-based test scripts.

Led the use of mock data for both visual and functional testing, improving reliability, test repeatability, and independence from backend dependencies.

Driving shift-left testing adoption across Agile teams and mentoring junior engineers.

Contributing to test framework governance and reusable component design.
- Appian Computer Technologies India Pvt Ltd

Senior Test Automation Engineer

Nov 2023 - Apr 2024

Chennai

Project: Low-code automation platform – developed and tested core functionality supporting rapid application development for enterprise clients.

- Designed an automation framework using Selenium with Python and pytest for scalable and maintainable functional testing.
- Developed reusable test components and a modular test architecture to support rapid automation for new features.
- Automated manual test workflows by integrating with internal systems and tools, reducing execution time and boosting reliability.
- Collaborated with DevOps and backend teams to ensure framework compatibility with distributed system architecture.
- Mentored junior engineers on Python automation standards, framework structure, and troubleshooting techniques.

Siemens Technology and Services Pvt Ltd

Lead Automation Engineer

Apr 2022 - Nov 2023

Chennai

Project: 8DJH switchgear is a medium-voltage, gas-insulated, metal-enclosed switchgear, designed for indoor installations up to 24 kV, and is used in secondary distribution systems. It's a factory-assembled, type-tested unit with a single busbar, suitable for public and industrial power systems.

- Led a team of 6 automation testers in developing and executing test automation for 8DJH Compact Medium-Voltage Switchgear.
- Implemented a Test-Driven Development (TDD) framework enabling configuration and validation of 1000+ device combinations efficiently.
- Designed and maintained Selenium Cucumber BDD automation framework to support within-sprint test development.
- Led enhancement of automation frameworks across large-scale web and API systems.
- Directed test planning, risk mitigation, and cross-team quality alignment.
- Drove CI/CD pipeline improvements and ensured high test coverage.

Verizon Data Services India Pvt Ltd,

Principal Automation Engineer

Sep 2021 - Mar 2022

Chennai

- Designed test frameworks supporting hybrid apps with Selenium, Appium, and Rest Assured.
- Spearheaded shift-left adoption and test optimization at the story level.
- Provided automation strategy support for DevOps transformation.
- Facilitated peer code reviews and exploratory test planning.

Siemens Technology and Services Pvt Ltd

Senior Test Automation Engineer

Aug 2015 - Sep 2021

Chennai

- Designed and developed an automation framework using Selenium WebDriver with TestNG and Maven for robust, scalable testing across product lines.
- Additionally worked with Protractor for Angular-based applications and performed performance testing using JMeter.
- Automated functional and performance test suites for various Building Management products such as Access Control Systems, Video Surveillance Systems, Intrusion Detection Systems, and Visitor Management Solutions.
- Created reusable test components and built modular test suites for maintainable and efficient execution.
- Integrated automated tests into CI/CD workflows using Jenkins and GitLab.
- Mentored junior team members and collaborated across QA, Dev, and Product teams.

Siemens Ltd

Test Automation Engineer

Dec 2010 - Jul 2015

Chennai

- Built core regression suite using Selenium and Java.
- Maintained and executed test automation scripts.
- Collaborated with QA leads to define test scope and verify issue resolution.
- Managed test documentation and supported functional test cycles.

Accomplishments

- Automation Framework Architecture & Maintenance
- Test Planning, Execution, and Strategy
- CI/CD Pipeline Integration & Optimization
- Sprint Automation & Shift-Left Implementation
- Team Mentorship & Technical Leadership
- Agile Testing & Defect Management

Awards

- GEM Award – For outstanding contributions and innovation in automation and AI-driven testing at Altimetrik.
- Champion Award – For excellence in framework implementation and productivity at Siemens.

Certifications

- ISTQB Foundation Certified – Apr 2012
- AWS Certified Solutions Architect – Associate – May 2021
- ChatGPT & AI Tools – Skill Nation, Issued Sep 2023
- Generative AI for Testers – Thrive EdSchool by The Test Tribe, Issued Sep 2023
- AI For India 2.0 – HCL GUVI, Issued Aug 2023
- Introduction to Programming Using Python – HCL GUVI, Issued Jul 2023