Deepa Subramaniyan

QA Engineer | Manual & Automation Testing
Education: Master of Information Technology – Madras University
Relevant Courses – Manual and Automation Testing at Test Leaf
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Professional Summary

QA Engineer with 5+ years of hands-**on Manual and Automation Testing experience** (SIT, UAT, Regression, End-to-End) and exposure to Automation Testing across web, mobile, and payments systems. Expertise in Payments testing (SWIFT, ISO, MT messages, e-commerce flows). Agile proficient with automation skills in Selenium/Playwright to accelerate regression cycles and ensure high-quality releases.

Technical Skills

Manual Testing: Functional Testing, Regression Testing, Smoke Testing, SIT, UAT, End-to-End Testing, Payments Testing (SWIFT/ISO/MT), E-commerce Flows, Test Case Design, Bug Reporting
Methodologies & Tools: Agile/Scrum, Jira, Cross-Browser Testing (Chrome, Firefox, Safari)

Automation Testing: Selenium (Java), Playwright, TestNG, POM, Postman (API), Jenkins/GitHub Actions (CI/CD)
Domains: Payments Workflows, User Registration/Login, Order Processing

Professional Experience

Particle Black – Manual Functional Tester (Dec 2025 – Present)

Dec 2025 – Present (5+ years total Manual Testing experience consolidated from 2020)

- Manual Testing cycles including SIT, UAT, Regression, and End-to-End testing for payment-enabled web/mobile apps, improving defect detection by 40%.

- Executed specialized Payment's testing covering SWIFT messaging, ISO standards, MT formats, cart/checkout/orders, stabilizing transactions by 30%.

- Designed/executed test cases in Agile sprints; participated in standups, retrospectives; collaborated via Jira to reduce production defects by 25%. Collaboration with developers and product owners, BA.

Movie Crow – QA Engineer (Manual & Automation) April 2020 – Jan 2025

- Executed **end-to-end manual testing** for web and mobile modules, improving defect

detection by **40%**.
- Created and executed **functional, regression, UI, smoke, and integration** test cases for multiple product releases.
- Designed **high-coverage test scenarios** for article rendering, video embeds, dynamic feeds, and SEO validations.
- Performed **e-commerce flow testing** (cart, checkout, product listing, order flow), increasing workflow stability by **30%**.
- Validated **user registration**, login, access control, and role-based workflows, reducing production login defects by **25%**.
- Conducted **cross-browser testing** on Chrome, Firefox, Safari ensuring 98% compatibility.
- Collaborated with developers to reproduce field issues and contributed to **35% faster issue resolution**.

Automation Testing Contributions:

- Built and maintained automation frameworks using **Playwright, Selenium (Java), Cypress** increasing regression automation to **95%**.
- Automated **critical smoke and regression suites**, reducing test cycle time by **60%**.
- Integrated automation scripts into **Jenkins & GitHub Actions**, enabling continuous testing for daily builds.
- Automated API validations using **Postman + Newman** achieving **50% reduction** in manual API effort.
- Improved test stability and reduced flaky test failures by **40%** using optimized waits, selectors, and reusable components.
- Performed **performance and load testing** using JMeter & K6 during high-traffic movie releases.
- Documented test strategies, authored reusable libraries, and mentored junior QA team members.

PROJECTS
Manual QA Tester (Volunteer)

Easy Forest Project

Conducted full Manual Testing (functional/UI/integration) for payment/donor flows, identifying 20+ issues and boosting fix accuracy by 45%.

E-Commerce Selenium Automation
- Automated shopping flow: product search → cart → checkout → order verification.
- Increased test execution speed by **50%** using data-driven TestNG framework.
- Integrated CI pipeline with GitHub Actions for automated nightly runs.

Registration Flow + Login Automation
- Automated full account creation workflow with form validations, OTP mock handling, and login verification.
- Reduced manual effort by **65%** for repetitive user-creation testing.