

Vidhya Mannathuparambil

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PROFESSIONAL SUMMARY

Experienced Test Automation Engineer with 7+ years in building robust automation frameworks for web, mobile, and API testing. Adept at accelerating release cycles, improving software quality, and enabling continuous integration through innovative testing strategies across diverse enterprise and consumer-facing applications.

EDUCATION

Iowa State University

Masters in Computer Engineering

Ames, Iowa

Aug. 2024 – May 2026(Expected) — Open to early graduation

Cochin University Of Science and Technology

Bachelors in Engineering

Kerala, India

April 2017

EXPERIENCE

Test Automation Intern

ABB

May 2024 – August 2024

Bartlesville, Oklahoma

- Reduced regression cycle time from 5 days to 2 days by automating end-to-end web UI workflows using Playwright(Typescript), significantly accelerating release velocity and increasing test reliability
- Enabled early defect detection, continuous testing and Improved dev feedback time by 60% by configuring Azure DevOps CI/CD pipelines to trigger automated regression tests on commits

Senior SDET (Software Development Engineer in Test)

KeyValue Software Systems

Aug. 2021 – July 2024

Kerala, India

- Accelerated regression efficiency and release reliability by 70% faster test cycles with UI automation (Playwright) and REST API automation (PyTest) leveraging the page object model for robust and maintainable test suites.
- Analyzed defect trends using AI-driven QA tools (GitHub Copilot, Testim, Diffblue, custom LLMs) to identify patterns and optimize test case design
- Ensured high-quality mobile releases by executing functional and UI automation for Android and iOS applications using Appium, supporting rollouts to 30K+ app users
- Architected reusable automation frameworks and shared test utilities to improve maintainability, scalability, and consistency across multiple projects
- Mentored junior engineers on automation strategy, modern tooling, test design patterns, and debugging techniques to strengthen overall team effectiveness

Software Quality Engineer

Envestnet

June 2017 – August 2021

Kerala, India

- Optimized API performance by conducting benchmarking with JMeter and Gatling, improving response times by 20% through bottleneck identification.
- Collaborated with business stakeholders to lead UAT testing, ensuring compliance and defect-free rollout to 30k+ end users by aligning test coverage with requirements and validating application logic
- Automated 300+ regression test cases with end-to-end Selenium WebDriver (Java) suites, reducing execution time from 3 days to 6 hours and cutting regression cycles by 70%, significantly improving release reliability and time-to-market in Agile environments.
- Improved release confidence by applying risk-based testing strategies to prioritize coverage for critical financial and regulatory-sensitive workflows

TECHNICAL SKILLS

Automation and Quality Engineering: Selenium WebDriver, Playwright, Appium, PyTest, TestNG, Cucumber (BDD), Ranorex Studio, Katalon Studio, BrowserStack, Postman, REST Assured, JMeter, Gatling, Burp Suite, SDLC, Agile

Programming and Scripting: Python, Java, JavaScript, SQL, REST APIs, XML

AI and Intelligent Automation: OpenAI APIs, LangChain, Hugging Face models, LLM-assisted test generation, AI-driven defect analysis

Cloud and DevOps: Git, GitHub, Jenkins, Azure DevOps, CI/CD pipelines, Docker, Maven, AWS

Test Management and Tooling: Jira (bug tracking and test management), TestRail, ALM, Release Management, Android Studio, Xcode

CERTIFICATIONS

ISTQB Foundation Level | AWS Certified Cloud Practitioner | NVIDIA Certification in Deep Learning