

Vinay Durgapal

Senior Automation Test Engineer / SDET
5 Years of Experience
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Professional Summary

Senior Automation Test Engineer with 5 years of experience designing, implementing, and scaling enterprise-grade test automation solutions across UI, API, Mobile, and Performance testing. Expertise in Java- and Python-based automation, BDD frameworks, Selenium, Playwright and CI/CD-driven testing. Experienced in defining test strategies, test planning, regression strategies, and shift-left testing to align quality engineering with business and release goals. Proven ability to reduce automation maintenance and improve release confidence through AI-driven self-healing automation and optimized framework architecture.

Key Business Impact

- Reduced locator maintenance effort by approximately 70% using AI-based self-healing automation.
- Decreased automation maintenance time from hours to minutes per sprint.
- Improved CI/CD pipeline reliability by minimizing flaky test failures.
- Implemented regression strategies ensuring stable releases.
- Enabled early defect detection through shift-left testing.

Technical Skills

Programming: Java, Python, SQL, JavaScript (basic)

UI & Mobile: Selenium WebDriver, Playwright, Appium

Frameworks: BDD (Cucumber, Gherkin), TestNG, Pytest, POM, Hybrid & Data-Driven

API: RestAssured, Python Requests, API Mocking

CI/CD & DevOps: Azure DevOps, GitHub Actions, GitLab CI/CD, Jenkins, Docker, Selenium Grid

Cloud: BrowserStack, LambdaTest

Performance: Apache JMeter, Locust

AI/ML: CodeT5, AI-Based Locator Healing, Smart XPath, JSON Caching

Quality Practices: Test Strategy, Test Planning, Regression Strategy, Shift-Left Testing, Agile/Scrum

Professional Experience

Test Solutions (Gen Z Solutions) — India

Senior Automation Engineer | Oct 2025 – Jan 2026

- Worked on API and Web Automation using Java, Selenium, and BDD Cucumber.
- Automated airline and travel-domain applications.
- Implemented REST API automation using RestAssured
- Integrated automation suites with Azure DevOps pipelines.
- Executed tests in Docker and Dockspace-based environments.

Webkul Software Pvt. Ltd. — Noida, India

Senior Automation Test Engineer | May 2023 – Oct 2025

- Defined test strategies and test plans aligned with sprint and release goals.
- Designed Python + Selenium + Cucumber BDD automation frameworks.
- Designed Python + Playwright + Pytest automation frameworks.
- Built scalable API automation using RestAssured and Python Requests.
- Implemented AI-powered self-healing automation reducing locator failures by ~70%.
- Designed and executed optimized regression strategies.
- Integrated automation with Azure DevOps CI/CD pipelines.
- Enabled shift-left testing through early collaboration with developers.
- Enabled parallel execution using BrowserStack, LambdaTest, and Dockerized Selenium Grid.

Cliffex Software Solutions Pvt. Ltd. — Noida, India

Automation Test Engineer | Sep 2021 – May 2023

- Automated web and mobile test cases using Selenium, Appium, Java, and Python.
- Designed Python + Playwright + Pytest automation frameworks.
- Developed BDD scenarios using Cucumber (Gherkin).
- Built reusable POM-based frameworks.
- Performed API validation using REST calls and Selenium Wire.
- Executed regression suites through CI pipelines.

Key Projects

Lufthansa Airlines – API & Web Automation

API and Web Automation using Java, Selenium, BDD Cucumber, RestAssured, Azure DevOps CI/CD, and Docker-based execution.

Salesforce eCommerce Connectors (Shopify, BigCommerce, Wix)

End-to-end UI and API automation with BDD frameworks, CI/CD integration, and cloud execution.

AI-Based Self-Healing Automation Framework

Custom framework using CodeT5, smart locators, DOM context analysis, and JSON caching.

Gaming & Betting Platforms (MMA BETClub, Rainmaker App)

Automated critical workflows for Web and Android platforms.

Education

B.Tech – Computer Science & Engineering
Mangalmay Institute of Engineering (2017–2021)

Availability

Open to Global Remote Roles, Contract Positions, and Relocation Opportunities.