

Nikhil Garg

Technical lead at HCL Technologies, Pune

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Summary

Results-oriented **Technical lead** with over 10.9 years of experience blending strategic leadership with hands-on automation. Expert in designing scalable automation frameworks, CI/CD integrations, and DevOps pipelines. Proven track record of managing QA teams (10+ members), driving client communication, requirement gathering, and delivering end-to-end quality solutions across Banking, Security, and E-commerce domains. Equally effective as a people leader and individual contributor, with a passion for continuous improvement and stakeholder satisfaction.

Skills

Tech Stack	Tools/Solutions
UI Test Automation	Selenium using Java
API/ Backend Automation	SOAP, RESTful, microservices, REST assured, postman
Testing frameworks	TestNG, cucumber, BDD, TDD, keyword driven, Hybrid
Programming and scripting	Java, Sql, Java Script, Html, Json
Mocking API	Wiremock, mock server, Mockito
Test Data Management	Apache POI, Faker
CI/CD & Dev Ops	Jenkins, Maven, Github actions, Docker
Reporting	Allure, extent reports
Test infrastructure management	AWS/azure/GCP Docker Kubernetes Selenium Grid Cloud Watch Influx DB Grafana Terraform
Artificial Intelligence Integration	Healenium, Generative AI, Copilot
Version Control & Build Tools	GitHub, perforce, Maven
Process & Quality Management	Agile, Scrum, Test Planning, RCA, Defect Triage, Risk Mitigation, Test Metrics
Domain Expertise	Banking, Security, E-commerce, Assessment Platforms
Client & Stakeholder Engagement	Requirement gathering, customer calls, sprint demos, UAT support, escalation management
Leadership & Team Management	Team mentoring, stakeholder engagement, performance reviews, capacity planning, QA process improvement

Professional Experience

HCL Technologies - Technical Lead

July 2021 – Present || Clients:- [SHL](#) (Assessment), [Norton antivirus](#) (Security)

Team Size: Managed 10+ QA Engineers (Automation + Manual)

Role: Individual Contributor, Delivery Owner, Tech Lead, Stakeholder POC.

Responsibilities:

- Led validation efforts for **LLM-driven** features, focusing on output consistency, prompt stability, and response token accuracy across diverse prompt types.
- Developed automation test scripts for AI-based recommendation and scoring systems, ensuring fairness, accuracy, and transparency of model behavior.
- Led automation efforts for the testing team, **achieving a 30% increase in test efficiency**.
- Implemented automated test scripts for UI, system, functional, integration, and regression testing, ensuring comprehensive test coverage.
- Conducted troubleshooting and root cause analysis for identified defects, significantly reducing the software release cycle time.

- Designed and implemented a scalable Selenium Grid on AWS EC2 with auto-scaling and real-time monitoring using CloudWatch, reducing test execution time by 40% and enhancing cross-browser coverage.
- Integrated REST Assured API tests and Selenium automation into AWS Code Pipeline/ Code Build, streamlining CI/CD processes and ensuring continuous quality deployment across dynamic cloud environments.
- Specialized in API automation testing using Cucumber, TestNG, and Rest-Assured contributing to a stable release cycle with a 20% reduction in post-release defects.
- Contributed to Agile cross-functional teams, actively participating in sprint planning, daily stand-ups, and sprint reviews, aligning testing efforts with Agile principles.
- Developed and implemented test strategies to align with business objectives.
- Generated comprehensive test reports focusing on clarity and detail, providing stakeholders with valuable insights into test coverage, results, and defect tracking.
- Revamped test automation suites, resulting in a 20% increase in test coverage, ensuring more thorough testing.
- Leveraged WireMock Server for API mocking in dynamic test environments.
- Designed test data strategy using Faker, reducing data-related test failures.
- Managed cross-functional teams and coordinated with stakeholders to ensure quality delivery.
- Mentored a team of 10 automation engineers, resulting in a 40% increase in overall team productivity and a smoother workflow.
- Played a pivotal role in the successful implementation of Automation Architecture in various projects.
- Oversaw the entire testing lifecycle from requirements analysis to final sign-off.

Environment: Selenium, Java, Rest-assured, Postman, JIRA, zephyr, MySQL workbench, GitHub, putty, Jenkins, Maven, Process Improvement, Project Management, Gen AI testing, docker, Kubernetes, SQL, Oracle, API, core java, Strategic Planning, Communication, Problem-Solving, Analytical Thinking, IntelliJ IDEA, VS code.

Veritas Technologies - SQA Engineer

Project: [Information Studio](#) | *July 2019 – July 2021*

Responsibilities:

- Spearheaded the development and maintenance of automated testing frameworks, enhancing test coverage and execution efficiency for UI, system, functional, and regression testing, resulting in a 25% reduction in testing time.
- Conducted extensive testing on Linux-based systems, demonstrating a deep understanding of Linux commands.
- Worked in a fast-paced environment, handling multiple tasks simultaneously with minimal supervision.
- Collaborated with stakeholders to develop comprehensive test cases for product features in the security domain.
- Implemented and executed test plans for various types of testing, ensuring product quality and reliability.
- Led the integration of automated tests into CI/CD pipelines, ensuring a seamless and reliable deployment process.
- Leveraged WireMock Server for API mocking in dynamic test environments.
- Specialized in API automation testing using Cucumber, TestNG, and Rest-Assured contributing to a stable release cycle
- Effectively utilized JIRA and TestRail for test case management and defect tracking.
- Utilized advanced debugging techniques and tools to promptly identify, isolate, and resolve software defects, ensuring the integrity of the software development life cycle
- Identified and resolved critical defects 15% faster through efficient automation practices, minimizing the impact on software release cycles.

Environment: JIRA, Zephyr, core java, Jenkins, Maven, HTML, Selenium WebDriver, Java, TestNG, agile, scrum, Eclipse IDE, docker, Rest-Assured, postman, API, BDD, TDD, hybrid framework, faker wiremock.

Responsibilities:

- Played a pivotal role in software testing, focusing on Functional Testing, Regression, and User Acceptance Testing.
- Collaborated effectively with product managers and business stakeholders, ensuring clear communication and understanding of testing requirements.
- Responsible for **writing and maintaining** Selenium WebDriver scripts for regression and functional testing using the **data-driven framework**.
- Involved in designing an automation **framework** for UI testing with Selenium.
- Executed browser **compatibility and regression tests** using **Selenium WebDriver** for testing UI for every new build release.
- Interacted and communicated with business analysts, project managers, developers, internal/external clients and senior management to manage issues throughout the software testing life cycle using **Agile and Waterfall methodologies**.
- Utilized business cases, system requirements and design specifications documents to **execute test strategies**.
- Performed **functional tests** using **Selenium WebDriver** with the data-driven framework and documented results.
- Collaborated with cross-functional teams to conduct thorough testing through all phases, guaranteeing software stability and quality.
- **Identified, Reported and Tracked Defects** using the Quality Center test management tool.
- Manually **tested, verified and validated** that the product meets user requirements.
- **Developed and executed SQL queries** to verify the proper insertion, deletion and updates into the Oracle supporting tables.

Environment: JIRA, Zephyr, core java, Jenkins, Maven, HTML, Selenium WebDriver, Java, TestNG, agile, scrum, Eclipse IDE, docker, Rest-Assured, postman, API, BDD, TDD, hybrid framework, faker, wiremock.

Education

B.E. in Information & Technology-2014. University of Pune, India.

Certifications

- ★ Fundamentals of Generative AI from Microsoft Azure.
- ★ Generative AI on AWS essentials.

Contact Details

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