VIGNESH G

QUALITY ANALYST | QA AUTOMATION | GENERATIVE AI AND AGENTIC AI TESTING

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PROFESSIONAL SUMMARY

Quality Analyst with hands-on experience testing web, Generative AI, Agentic AI, and Retrieval-Augmented Generation (RAG) applications. Skilled in manual testing, test case design, defect reporting, functional and regression testing, and Selenium WebDriver automation using Core Java, TestNG, Maven, Page Object Model, and Allure. Experienced in evaluating LLM accuracy, hallucinations, context retention, retrieval relevance, grounding, and end-to-end workflow outcomes.

TECHNICAL SKILLS

Testing: Manual Testing, Functional Testing, Regression Testing, Smoke Testing, Sanity Testing, UI Testing, End-to-End Testing, Test Scenarios, Test Cases, Defect Reporting, RTM

Automation: Selenium WebDriver, Core Java, TestNG, Maven, Page Object Model (POM), Allure Reports, WebDriverWait, Actions, JavaScript Executor, iframe and window handling

API and Data: Postman, REST API Testing, Oracle SQL, JSON Validation, Data Comparison

AI Quality Assurance: Generative AI Testing, Agentic AI Validation, LLM Output Evaluation, Hallucination Detection, RAG Testing, Retrieval Relevance, Grounding, Context Retention

Tools and Methods: Azure DevOps, Agile/Scrum, Eclipse, Visual Studio Code, Proteus 8.12

PROFESSIONAL EXPERIENCE

Quality Analyst (Software Testing) | Xtract.io Technologies Pvt Ltd | Feb 2026 - Present

- Design and execute functional, regression, smoke, sanity, UI, and end-to-end test scenarios for AI-driven web applications across CERT, UAT, and production environments.
- Validate LLM and Agentic AI features for response accuracy, hallucinations, context retention, workflow state transitions, failure handling, and output formatting.
- Test RAG pipelines by assessing retrieval relevance, source grounding, generated-answer consistency, and document-processing behavior.
- Develop and maintain Selenium WebDriver automation using Core Java, TestNG, Maven, Page Object Model, reusable utilities, waits, and Allure reporting.
- Perform REST API checks with Postman and data validation with SQL and JSON while testing integrated workflows.
- Create detailed test cases and evidence-based bug reports, track defect lifecycles in Azure DevOps, and collaborate with cross-functional teams in Agile delivery cycles.

Process AR - Associate | Omega HealthCare Management Services Pvt Ltd, Chennai **| Jul 2025 - Nov 2025**

Business Development Associate | Skill Intern Pvt Ltd, Bangalore **| Feb 2025 - Apr 2025**

Embedded Design and AI Intern | National Small Industries Corporation (NSIC) | Jun 2024 - Jul 2024

Data Analytics and Visualization Virtual Intern | Accenture via Forage | Jun 2024

SELECTED PROJECTS

Selenium Test Automation Framework | Java, Selenium, TestNG, Maven, POM, Allure

- Built a reusable automation framework with base test setup, page classes, object repositories, and utility methods for waits, actions, frames, windows, uploads, alerts, and validations.
- Implemented data-driven and reusable test execution patterns to support maintainable automation of critical XDAS user flows.

Green Computing-Based V Ally Shopping Dray | Academic Project | Nov 2024

- Built an eco-friendly retail automation prototype using intelligent cameras and machine learning for real-time product detection.

Intelligent Transportation System Using Massive MIMO | Academic Project | Apr 2024

- Designed a traffic-management solution using Massive MIMO technology to improve communication reliability.

EDUCATION

B.E. Electronics and Communication Engineering | SRM Valliammai Engineering College | 2021 - 2025

CGPA: 8.76

HSC (12th Grade) | St. Joseph's Matriculation Higher Secondary School | 2020 - 2021 | 91.22%

SSLC (10th Grade) | St. Joseph's Matriculation Higher Secondary School | 2019 - 2020 | 89.6%

PUBLICATION AND PRESENTATION

Presented "Green Computing Based V Ally Shopping Dray" at ICCCT 2025, Sairam Engineering College, Chennai, March 2025. Published in the 2025 International Conference on Computing, Communication and Technology, IEEE Xplore. DOI: 10.1109/ICCCT63501.2025.11020204

CERTIFICATIONS AND TRAINING

- Software Testing - June 2025
- Core Java - August 2024
- Advanced Remote Sensing Techniques for Geological Locations - March 2024
- Basics of HTML/CSS - September 2023
- Diploma in Computer Application - January 2018

LANGUAGES

English | Tamil | Telugu