

RAMANAN PRABAKARAN

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[LinkedIn](#) ▪ [AI-Powered QA Portfolio](#) ▪ [GitHub](#)

PROFESSIONAL SUMMARY

QA Team Lead – Software Testing with 4 years of experience in manual testing, test automation (Playwright, Selenium), API testing, and AI-assisted QA. Lead a 10-member cross-functional team in Agile/Scrum, owning sprint planning, test strategy, defect triage, and release readiness. Reduced defect leakage by 40% (10 to 6 per release) through risk-based testing and early test involvement, and delivered 12 releases with no critical production incidents. Automate Jira story and bug creation with AWS Kiro and the team's custom MCP server, saving 5+ hours a week.

CORE LEADERSHIP COMPETENCIES

Team Leadership | Test Strategy, Planning & Estimation | Mentoring & Coaching | Sprint Planning & Task Allocation | Defect Triage | Risk-Based Testing | Release Readiness | Stakeholder Communication & Demos | Cross-Functional Collaboration

TECHNICAL SKILLS

- **Testing:** Manual Testing, Test Automation, API Testing, Regression, Smoke/Sanity, Exploratory, UAT, Performance Testing, Defect Tracking, Migration Testing, Shift-Left Testing, Risk-Based Testing, Requirements Traceability
- **Automation:** Playwright, Selenium WebDriver, Cucumber BDD, Test Automation Framework, Page Object Model, SelectorsHub, Chrome DevTools, Testim, TestRigor
- **API & Performance:** REST, SOAP, Postman, SoapUI, ReadyAPI, REST Assured, JMeter
- **Languages & Databases:** Core Java, JavaScript/TypeScript, Python, Flask, PowerShell, SQL, Oracle SQL Developer, Microsoft SQL Server
- **CI/CD & Version Control:** CI/CD, Jenkins, Bamboo, Git, GitHub, Bitbucket, Windows Task Scheduler
- **Cloud:** AWS, Cloud-Based Test Environments, Remote Execution
- **AI & Agentic:** Generative AI, Agentic AI (Oracle Certified), AI Agent Testing, Prompt Engineering, LLM Testing and Evaluation (DeepEval, LangSmith, Promptfoo), Hallucination Detection, AWS Kiro, Claude Code, ChatGPT, MCP (AWS Kiro), AI-Assisted QA, n8n Workflow Automation (basic)
- **Management:** Jira, Microsoft Azure Boards, Agile/Scrum, STLC, Test Planning, RTM, Stakeholder Communication, Stakeholder Demos
- **Domain:** Sustainability & Environmental Compliance, E-commerce, Enterprise Web Applications
- **ML & AI Projects:** AI-Powered QA Defect Prediction Engine (Python, Scikit-Learn, Flask, REST API, Render), custom-trained Logistic Regression model, built with AI assistance

WORK EXPERIENCE

AAHA SOLUTIONS – India & United Kingdom | Puducherry

Team Lead – Software Testing (Manual & Automation) | Nov 2022 – Present

- Directed the end-to-end STLC with **95%** requirements coverage and traceability, using a Requirements Traceability Matrix (RTM).
- Executed Functional, Exploratory, and UAT cycles for critical releases in Agile/Scrum sprints, authoring Test Plans, Test Cases, and Summary Reports and tracking defects in Jira.
- Applied Generative AI and prompt engineering (ChatGPT, Claude) to accelerate test case generation, and explored TestRigor for AI-driven test automation.
- Used an agentic IDE (AWS Kiro) with a custom MCP server for AI-assisted test automation, code analysis, debugging, and Jira story and bug creation.

ROLES & RESPONSIBILITIES

- Led and mentored a 10-member cross-functional QA team across 8 modules in Agile/Scrum sprints, owning sprint planning, task allocation, and delivery with a **95%** on-time release rate.
- Reduced defect leakage by **40%** (10 to 6 per release) and improved product quality by **25%** (measured by UAT rejection rate) through risk-based testing, early test involvement, and test case reviews.
- Integrated AWS Kiro with Jira via a custom MCP server developed with the engineering team, saving **5+ hrs/week** on story and bug creation.
- Owned the end-to-end Software Testing Life Cycle (STLC): test strategy, planning, estimation, execution, defect tracking in Jira, and release readiness.
- Executed manual testing (functional, integration, system, smoke, sanity, exploratory, regression, UAT) and optimized a 1,200+ test case regression suite, cutting redundant tests by **20%**.
- Built a Test Automation Framework using Playwright and Selenium WebDriver with Bamboo CI/CD, cutting regression time from **12 hrs to 4 hrs (70% automation coverage)**.
- Performed API testing of REST and SOAP APIs using Postman, SoapUI, and ReadyAPI, and verified data integrity with SQL on Oracle SQL Developer (150+ endpoints, 200+ DB validations).
- Used AI tools and agentic IDEs to speed up test case design, automation, and debugging by **35%**, and delivered 12 releases with no critical production incidents.

ACHIEVEMENTS & CERTIFICATIONS

Oracle University: Certified Foundations Associate – Agentic AI

Tricentis / ShiftSync Community: AI Test Engineering, MCP Servers for Testers, Generative AI in Testing, AI Automation for Manual Testers, Testing LLM Use Cases (webinar); Winner, QA True Crime Challenge; Spotlight Achiever

AWS Training & Certification: Foundations of Prompt Engineering, Cloud Practitioner Essentials

LangChain Academy: LangChain Essentials – TypeScript

TestAutomationU (Applitools): Intro to Testing ML Models

Ministry of Testing: Community Contributor Certificate, Bug Finder Winner

LambdaTest: Playwright 101, Selenium Java 101

EDUCATION

B.Tech, Mechanical Engineering | Sri Manakula Vinayagar Engineering College, Puducherry | 2015 – 2019 |
CGPA: 9.08/10

DECLARATION

I hereby declare that the information provided above is true and correct to the best of my knowledge.

DATE:

(RAMANAN PRABAKARAN)