

RAJESH B

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SUMMARY

Enterprise Architect / Project Manager Automation and Manual Quality with 14+ years of experience in designing, developing, and implementing robust test Manual/automation frameworks for Azure Cloud, Big Data, ETL, Web, API, and Mobile applications. Proven expertise in Azure Cloud, ETL, Selenium, Java, JavaScript and CI/CD pipelines. Adapt at optimizing testing processes, efficiency gains through automation and continuous integration improvements. Experienced in Agile/Scrum methodologies and leading cross-functional teams to deliver high-quality software for clients. Passionate about leveraging AI tools to enhance automation effectiveness and enable next-generation intelligent testing solutions.

TECHNICAL SKILLS

- Testing Frameworks: Azure Cloud, Big Data, ETL, Selenium, Rest Assured
 - Programming & Scripting: Java, JavaScript, Python, SQL
 - Automation Frameworks: TestNG, Cucumber (BDD/TDD), Hybrid & Data-Driven
 - Agile & DevOps: Azure DevOps, Agile/Scrum, TDD, BDD
 - API Testing: Rest Assured, Karate BDD, Postman
 - CI/CD Tools: Jenkins, GitLab CI/CD
 - AI & Generative Tools: GitHub Copilot, ChatGPT (4.0/5.0), Claude 3
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PROFESSIONAL EXPERIENCE

Enterprise Architect / Project Manager | AIRO Digital Labs India Pvt Ltd (Client: ATCC)

Feb 2024 – Present / Gurgaon, India

- Manage end-to-end testing for complex Azure Cloud Data, Web, API applications, ensuring comprehensive test coverage and high-quality delivery.
- Develop and maintain automation frameworks and test scripts using Python, Selenium WebDriver, Rest Assured, Java, JavaScript.
- Maintain and enhance Empower Test Automation Frameworks supporting TDD, BDD, and coverage for Web UI, API and batch applications.
- Collaborate with development teams to shift testing left, improving early defect detection and continuous feedback loops.
- Utilize Azure DevOps boards to manage and organize the user stories and defects
- Perform defect triage, reporting, and analysis, ensuring timely resolution and transparent communication.
- Deliver within Agile (Scrum) and Full Stack development environments, ensuring quality throughout the SDLC.
- Co-ordinating the project teams for sprint level metrics gathering and automation feasibility
- Working closely with Testing Team and Project teams

Key Achievements & Contributions

- **Test Strategy:**
 - Played a key role in Defining and implementing a comprehensive end-to-end test strategy covering functional, regression, integration, and UAT phases
- **Automation & Efficiency:**
 - Guided the team to develop a robust test automation suite using Python/Alteryx/Selenium to reduce regression cycle time by 60%
 - Integrated automated tests into CI/CD pipelines, enabling builds with zero manual intervention.
- **Quality Metrics & Reporting:**
 - Designed and tracked key quality KPIs (defects, test coverage, pass rate, etc.) to drive continuous improvement.
 - Delivered QA reports using tools like AzureDevOps/Rally.
- **Team Leadership & Collaboration:**
 - Led a cross-functional QA team of 14+ testers across multiple time zones, ensuring consistent delivery and knowledge sharing
 - Mentored the junior QA engineers and built a center of excellence for test automation and performance testing.
 - Co-ordinating with QA Team regular basis and help them to train cross functional
- **Risk Mitigation & Defect Management:**
 - Identified and mitigated critical defects pre-production, preventing potential revenue loss and customer impact.
 - Implemented the required Regression test suits to accept the builds
 - Co-ordinating with QA Team to run the regression suits regularly in UAT phases.
- **Stakeholder Engagement:**
 - Acted as the single point of contact for QA with product owners, developers, and business analysts.
 - Involved daily stand-ups, sprint reviews, and defect triage meetings, ensuring alignment and transparency.
- Developed robust, reusable, and maintainable automation scripts using Python, Selenium and Java.
- Optimized CI/CD pipelines in Jenkins, automating nightly regression runs and improving early defect visibility.

AI in Test Automation – Research & Implementation

- Evaluating Generative AI tools such as GitHub Copilot, Claude 3, and ChatGPT to enhance automation design, development, and maintenance efficiency.
- Conducting proofs of concept (POCs) integrating AI-assisted code generation into existing frameworks
- Leveraging Copilot and ChatGPT-based test data generation to reduce manual effort across Cloud ,Web, API testing.

- Researching and experimenting with Agentic AI models for autonomous end-to-end test automation, targeting up to 80% reduction in overall script development time and overall testing efforts.
- Collaborating with architecture and quality teams to define AI adoption strategy and best practices, with ongoing research expected to yield measurable productivity gains.

Professional 2 Application Designer | DXC Technology (Client: American Airlines)

May 2022 – Feb 2024 | Bangalore, India

- Designed and implemented scalable keyword-driven and hybrid automation frameworks using Selenium, Java, and TestNG, integrating API automation (Rest Assured) and parallel execution to enhance release efficiency.
- Led automation feasibility analysis, identified test candidates.
- Measured and reported automation ROI and efficiency metrics to leadership, demonstrating tangible quality and productivity improvements.
- Led the Testing team to Developed and executed automation test scripts for web and mobile applications, ensuring cross-browser and device compatibility.
- Collaborated closely with development teams to identify, triage, and resolve defects early in the lifecycle.
- Provided technical mentorship to junior team members on framework design and best practices.
- Contributed to multiple successful deliveries and gained domain expertise in transportation systems.

ASSOCIATE MANAGER | CIBERSITES India Pvt. Ltd (Client: FORD Technologies Services India Pvt. Ltd)

April 2011 – May 2022 | Chennai, India

- **Big Data Testing:**
 - Tested data ingestion pipelines into HDFS/Data Lake using Hive and Spark SQL
 - Verified schema evolution, partitioning, and file formats (Parquet, ORC, Avro) for large-scale datasets.
 - Conducted performance and volume testing to ensure scalability of big data solutions.
 - Validated metadata consistency and data lineage using tools like Apache Atlas or Azure Purview.
- **ETL Testing:**
 - Validated source-to-target data mappings and transformation logic across staging and warehouse layers.
 - Wrote complex SQL queries to verify data accuracy, completeness, and integrity in ETL workflows
 - Monitored ETL job executions and performed reconciliation between source systems and data warehouse.
 - Collaborated with data engineers to troubleshoot data load issues and optimize ETL performance.

- **Web Testing:**
 - Designed and executed functional, regression, and UI test cases for web applications across multiple browsers and devices.
 - Performed API testing using tools like Postman and Swagger to validate RESTful services and data exchange.
 - Developed and maintained automated test scripts using Selenium/Cypress integrated with CI/CD pipelines.
 - Conducted cross-browser and responsive design testing to ensure consistent user experience.
 - participated in daily stand-ups, sprint planning, and retrospectives to align QA efforts with Agile delivery
 - Led automation feasibility analysis, identified test candidates.
 - Logged and tracked defects using JIRA/Azure DevOps and collaborated with developers for resolution.
 - Maintained test documentation, test data, and traceability matrices to support audit and compliance.
 - Contributed to continuous improvement by analyzing test results and recommending process enhancements.
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PROJECTS

Data Platform Management (Client: ATCC)

- Tools & Technologies: Azure Synapse Analytics, Alteryx, Pyspark , SQL, SparkSQL, Azure DevOps , GitHub, Selenium, JavaScript
- Description:

ATCC or the American Type Culture Collection is a nonprofit organization which collects, stores, and distributes standard reference microorganisms, cell lines and other materials for research and development.

The current project which we are working on a Migration project, in which ETL pipelines build using Snaplogic and Knime we are migrating to Azure Cloud using Azure Synapse Analytics.

- Key Contributions:
 - Maintained and enhanced the Hybrid automation framework using Pyspark, Selenium.
 - Work with Manual/ Automation/ Report Testing team.
 - Work with Projects teams for required test deliverables collection.
 - Helping the team members for getting trained for cross functional.
 - Maintain the Regression suits and executed them for UAT code migration
 - Created and executed test scripts for Web and API applications.

- Implemented cross-browser compatibility testing, parallel execution, and API integration using REST web services.
- Automated test execution via Jenkins for scheduled regression runs.

CREWHUB (Client: American Airlines)

- Tools & Technologies: Azure Data Factory, Databricks, Selenium, Python, SQL, Java, Rally
- Description: Maintain crew information in Azure Cloud by processing the data from Event Hub.
- Key Contributions:
 - Designed test plans, developed automation test scripts, and executed test cases.
 - Led the QA Testing team and work with them to get the QA Metrics
 - Involved in Defect Triage Meetings, Agile Standups, Retrospective and Iteration Planning Meetings
 - Managed the test team, ensuring timely project deliveries.

Data Supply Chain (DSC) (Client: FORD Technologies India Pvt Ltd.)

- Tools & Technologies: BigData, Alteryx, SQL, HP ALM, Selenium, Java, Jira, TestNG
- Description:

Data Supply Chain is the Ford information platform for analytics that balances the demands of data management and information access. It helps integrate structured, semi-structured and unstructured information into a single logical information resource that can be leveraged for different types of analytics and analytic applications.
- Key Contributions:
 - Maintained the Hybrid framework and developed automation test scripts.
 - Worked on Alteryx workflows for Test Automation pipelines to validate the data.
 - Involved in creating Test Cases in HP ALM and peer review the test cases written by QA Tester in the team
 - Led test execution management for on-time release delivery.

SCA-C (Single Complete Actionable – Customer) (Client: Ford Technologies India Pvt Ltd.)

- Tools & Technologies: BigData, Alteryx, SQL, HP ALM, Selenium, Java, Jira, TestNG
- Description: A global customer information & analytics platform.
- Key Contributions:
 - Developed and executed test scripts for portal applications.
 - Managed the test team, ensuring smooth and timely release cycles.

 **SNURK (Client: Ford Technologies India Pvt Ltd.)**

- Tools & Technologies: ETL Data Stage, HP ALM, Selenium, SQL, Linux
- Key Contributions:
 - Created a program-level test plan and developed batch files for TPMS operations.
 - Maintained the Hybrid framework and executed test cases.
 - Managed test execution and ensured timely release delivery.

 **PERS (Plant Emission and Reporting System) (Client: Ford Technologies India Pvt Ltd.)**

- Tools & Technologies: Business Objects, HP ALM, SQL
- Key Contributions:
 - Created a program-level test plan, executed test cases, and generated custom reports.
 - Maintained the Hybrid framework and managed test execution for timely releases.

EDUCATION

Bachelor of Technology (B.Tech) – Electrical & Electronics Engineering
Jawaharlal Nehru Technological University (JNTU) | 2007