

# VENKATESHWARA DOIJODE

Senior SDET | Automation Architect | AI-Augmented Quality Engineering

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## PROFESSIONAL SUMMARY

Results-driven **Senior SDET / Automation Architect** with **9 years of experience** designing scalable automation frameworks and AI-augmented quality platforms for enterprise fintech, banking, and SaaS systems. Expert in **Java, Selenium WebDriver, REST Assured, TestNG, and Appium** with deep specialization in microservices architecture testing, REST API validation, and distributed data-flow verification. Demonstrated track record of leveraging **AI/ML techniques**—including predictive test selection, anomaly detection, self-healing automation, and LLM-based test generation—to drive intelligent, shift-left quality engineering. Passionate about integrating **AI Agents, MCP servers, and agentic automation methodologies** into enterprise CI/CD pipelines to accelerate release velocity and elevate product stability.

## CORE COMPETENCIES & TECHNICAL SKILLS

<b>Languages</b>	Java (Primary), Python, SQL, Shell/Bash Scripting
<b>UI Automation</b>	Selenium WebDriver, Selenium Grid (Cross-Browser), Appium (Android & iOS)
<b>API &amp; Backend</b>	REST Assured, Postman, JSON/XML Validation, Contract Testing, Microservices Testing
<b>AI/ML &amp; Agents</b>	AI-Assisted Test Generation, Predictive Test Selection, Anomaly Detection, Self-Healing Automation, Windsurf AI Refactoring, Eliza AI Agent Development, MCP Servers, Agentic Automation Workflows, GPT-Based Test Optimization
<b>Frameworks &amp; Performance</b>	TestNG, JUnit, Cucumber (BDD), Pytest, Page Object Model (POM), Data-Driven & Keyword-Driven
<b>CI/CD &amp; DevOps</b>	JMeter, Gatling, k6 Jenkins, Git, Docker, Kubernetes (AKS), Azure DevOps, GitHub Actions
<b>Databases</b>	Oracle SQL Developer, PostgreSQL, PL/SQL, NoSQL (CouchDB), Backend Data Validation
<b>Methodologies</b>	Agile/Scrum, Shift-Left Testing, In-Sprint Automation, DevOps Quality Gates, TDD/BDD
<b>Cloud</b>	Azure (AKS Certified), AWS (Generative AI Essentials)
<b>Tools</b>	JIRA, ALM/QC, Git, Subversion, DAT File Generation, Containerized Test Environments

## PROFESSIONAL EXPERIENCE

**Lead SDET (Automation Architect) | Wipro Technologies** June 2021 – Present (4 Years 10 Months)  
India — Bank of New York (BNY)

- Designed and implemented a **scalable, modular automation framework** in **Java, Selenium WebDriver, and TestNG**, reducing manual regression effort by **70%** and cutting regression execution time **from 4 hours to under 45 minutes** through parallel test execution.
- Built comprehensive **end-to-end API automation suites** using **REST Assured**, validating RESTful microservices, OAuth authentication tokens, HTTP headers, and complex JSON/XML payloads across distributed system architectures.
- Architected and integrated automation suites into **CI/CD pipelines via Jenkins**, enabling continuous automated testing on every build and reducing release verification time by **60%**; implemented DevOps quality gates ensuring builds pass UI, API, and integration tests prior to deployment.
- Implemented **AI-assisted automation** using **Windsurf AI** to refactor Selenium and Python scripts—enhancing code readability, stability, and reusability; applied **anomaly detection** to identify flaky tests and improve overall automation reliability.
- Developed an **Eliza AI Agent** to provide rapid, on-demand access to transactional and hydration data, significantly improving analysis efficiency and reducing manual data lookup time for QA and development teams.
- Implemented **In-Sprint Automation** practices, achieving on-time project delivery with client appreciation; collaborated with product managers and developers in Agile Scrum ceremonies to define acceptance criteria and identify defects early.
- Automated complex **end-to-end transaction workflows** encompassing UI validation, REST API verification, and **backend database checks using advanced SQL queries**, ensuring data integrity and comprehensive test coverage.
- Developed **mobile automation scripts using Appium** for Android and iOS platforms, validating native and hybrid mobile application workflows across multiple device configurations.
- Implemented **cross-browser automation using Selenium Grid** ensuring compatibility across Chrome, Firefox, and Edge; reduced flaky tests by **40%** through dynamic locators, smart waits, and intelligent retry logic.

- Built an **automation utility for DAT file generation**, eliminating manual effort; innovation submitted to **Wipro Pragati** innovation program. Created Shell scripts to automate recurring operational tasks, improving efficiency and reducing manual intervention.
- Developed **Python automation utilities** for data parsing, report generation, and API validation, improving end-to-end testing workflows and reducing manual QA/UAT regression effort by **30–50%**.
- **Mentored junior QA engineers** in Java automation, REST Assured, Selenium best practices, and AI-augmented testing approaches, improving team productivity and accelerating automation adoption.

**Programming Analyst** | *Cognizant Technology Solutions*

**May 2018 – May 2021 (3 Years 1 Month)**

India — Blue Cross and Blue Shield of North Carolina (Blue Cross NC) | India

- Implemented **AI-assisted test generation** techniques to automatically create and optimize test cases, improving test coverage and significantly reducing manual test design effort across Agile sprints.
- Leveraged **AI-based test analysis tools** for flaky test identification, anomaly detection in test results, and continuous improvement of automation reliability across regression and integration suites.
- Built **DevOps-driven automation workflows** integrated into Jenkins/Git CI/CD pipelines, ensuring continuous testing and immediate feedback across build, deployment, and release stages; implemented parallel pipeline execution to reduce build validation time.
- Developed automation frameworks supporting **microservices and API-driven architectures**, validating service interactions, contract testing, and system-level integration across distributed environments.
- Implemented **containerized test environments using Docker**, enabling consistent, reproducible, and scalable automation execution across development, staging, and production-mirror environments.
- Applied **shift-left testing practices** by collaborating with developers during the design and development phases to improve testability, reduce defect leakage, and establish quality standards earlier in the SDLC.
- Developed intelligent **test data generation utilities** and automated environment provisioning scripts, improving test stability and reducing setup overhead in CI/CD environments.
- Integrated automated testing with **monitoring and logging tools**, enabling early detection of production anomalies and improving system observability across microservices.
- Collaborated with DevOps engineers to **optimize pipeline performance**, eliminating test execution bottlenecks and accelerating release cycle frequency for multiple concurrent product streams.

**Associate Software QA Engineer** | *ReDIM Group*

**March 2017 – May 2018 (1 Year 3 Months)**

Chennai, India

- Designed and executed **Selenium WebDriver + Java + TestNG automation scripts** for web applications; built and maintained **Appium mobile automation** for Android and iOS native apps.
- Performed **REST API testing using REST Assured**, validating RESTful services, JSON responses, and end-to-end API contract adherence; integrated suites into CI/CD pipelines for continuous test execution.
- Designed comprehensive **Test Plans, Test Strategies, Test Scenarios, and Test Cases**; tracked requirement changes and maintained full traceability throughout the testing lifecycle.
- Reported, tracked, and managed defects using **JIRA and ALM/QC**; generated QA dashboards tracking testing progress, quality metrics, and release readiness; managed source code with Git and Subversion.
- Participated in Agile sprint planning and release planning ceremonies; prepared QA process documentation, training materials, and defect reporting guidelines for onboarding new engineers.

## KEY CONTRIBUTIONS & INNOVATIONS

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- **In-Sprint Automation Leadership:** Implemented In-Sprint Automation strategy that earned direct client appreciation for consistent on-time delivery and improved sprint quality metrics.
- **Eliza AI Agent:** Designed and developed a custom AI agent to provide rapid access to transactional and hydration data, improving team analysis efficiency and eliminating manual lookup bottlenecks.
- **DAT File Generation Utility (Wipro Pragati Submission):** Built an automation utility for DAT file generation that eliminated significant manual effort; recognized and submitted as an innovation to Wipro's Pragati program.
- **Shell Script Automation Suite:** Authored Shell scripts to automate recurring operational tasks, reducing manual intervention and improving infrastructure management efficiency.
- **AI-Assisted Code Refactoring:** Applied Windsurf AI to systematically refactor Selenium and Python automation scripts, achieving measurable improvements in code readability, stability, and long-term maintainability.
- **Python Test Utility Library:** Developed reusable Python utilities for data parsing, report generation, and API validation—integrated across QA and UAT workflows, reducing regression effort by 30–50%.
- **SQL-Driven Backend Validation:** Authored complex SQL queries and scripts for comprehensive backend data validation, ensuring data integrity and supporting end-to-end test coverage across fintech transaction workflows.

## EDUCATION & CERTIFICATIONS

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**Bachelor of Engineering – Computer Science & Engineering**

**2011 – 2015**

Sree Sastha Institute of Engineering and Technology, Chennai

### **Certifications:**

- **Azure Kubernetes Service (AKS)** – Microsoft Azure
- **Selenium with Java (Automation Testing)** – Industry Certification
- **Generative AI Essentials on AWS** – Amazon Web Services
- **NoSQL – CouchDB** – Industry Certification

## HONORS & RECOGNITION

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- Client Appreciation – On-Time Delivery via In-Sprint Automation (Wipro, 2022)
- Wipro Pragati Innovation Submission – DAT File Generation Automation Utility
- Second Prize – Paper Presentation Event (LIFI Technology)
- Represented institution as a competitive Handball Player