

SATYABRATA DASH

Lead Automation Engineer | Selenium · Playwright - RPA · Appium · Java - Python · TypeScript | BDD/TDD | Kubernetes (CKA) | Web · Mobile · API Testing Expert | AI-powered testing with n8n, RAG, LangChain, LangFlow & MCPs

✉ dash.satyabrata@outlook.com | 📞 6289580622 | 📍 Bengaluru, Karnataka

PROFESSIONAL SUMMARY

- Test Automation Lead with 8+ years of expertise in designing and implementing end-to-end quality engineering frameworks for product and service-based companies.
- Proven ability to **lead test automation strategy**, mentor junior team members, and drive continuous improvement of QA processes across multiple teams.
- Proficient in Java, JavaScript/TypeScript, and Python; hands-on with Selenium, Appium, Playwright, and RPA for mobile, web, and API test automation.
- Deep experience evolving **predictive and intelligent testing approaches**, integrating automation frameworks with CI/CD pipelines (Jenkins) and containerized environments (Docker, Kubernetes). Actively exploring AI-powered testing using RAG pipelines, LangChain, Langflow, n8n, and MCP (Model Context Protocol) to build smarter, context-aware test intelligence.
- Strong communicator and **SME (Subject Matter Expert)** with the ability to engage with cross-functional teams, make informed decisions, and deliver solutions across multiple teams.

EDUCATION

- Master of Technology (M.Tech)** from SRM University, Kattankulathur, Chennai
- Bachelor of Technology (B.Tech)** from BPUT, Rourkela, Odisha

TECHNICAL SKILLS

Testing Tools	Selenium WebDriver, Appium, Playwright, Robocorp RPA
Programming Languages	Core Java, Python, TypeScript / JavaScript
Test Frameworks	TestNG, Cucumber (BDD), Behave (BDD), PyTest
CI/CD & DevOps	Jenkins, Docker, Kubernetes (CKA Certified)
API Testing	REST Assured, HTTP Robot Framework Library, Postman
Build Tools	Maven, Gradle
Version Control	GitHub, GitLab Bitbucket
Bug & Project Tracking	JIRA, BugZilla
IDEs	Eclipse, IntelliJ, PyCharm, Visual Studio Code, WindSurf
AI-Powered Testing	RAG (Retrieval-Augmented Generation), LangChain, Langflow, n8n, MCP (Model Context Protocol)
Operating Systems	Mac OS, Windows, Android, iOS

PROFESSIONAL EXPERIENCE

7-Eleven Global Solution Center (Aug – 2022 to Till Date)

Product Information Management (PIM) — Web & API

PIM centralizes and standardizes product data for consistent, accurate content across multiple omnichannel sales platforms. Ensures data quality through validation and governance tools.

Tech Stack: Playwright (TypeScript), Robocorp RPA, HTTP Robot Framework Library, Jenkins, Docker

Key Responsibilities

- Led the end-to-end quality engineering strategy across UI and API test layers.
- Evaluated and recommended new automation tools and technologies to enhance the overall automation strategy.
- Designed, developed, and maintained scalable automation frameworks aligned with CI/CD pipelines.
- Conducted regular code reviews enforcing maintainability and best practices across the team.

- Mentored team members on Playwright + TypeScript automation techniques and BDD practices.
- Involved in performance testing of API endpoints to validate response times under load.
- Executed test plans, analysed results, and reported defects through JIRA with full traceability matrix.

NTT-DATA Business Solutions (Oct – 2020 to Jul - 2022)

SAP SuccessFactors Compensation — Web Application

SAP SuccessFactors Compensation helps business leaders and HR professionals improve budget accuracy and tie employee pay to business results

Tech Stack: Automation Development Framework Version 2 (ADFV2), Java, JIRA, GitHub, Jenkins, SonarQube

Key Responsibilities

- Converted manual test cases to automated scenarios using ADFV2, improving regression coverage by 60%.
- Collaborated with cross-functional teams (Dev, QA, Business) to validate compensation calculation logic.
- Involved in CI pipeline integration ensuring automated tests ran on every build via Jenkins.
- Participated in security validation of API endpoints handling sensitive compensation data.
- Conducted code reviews and corrections to ensure quality and maintainability of automation code.

ARC Document Solutions (Feb – 2019 to Sep - 2020)

ARC Facilities— Mobile & Web Application

Facility management software enabling managers to manage campuses and buildings from any device, anytime.

Tech Stack: Selenium WebDriver, Java, TestNG, Appium, BugZilla, Bitbucket

Key Responsibilities

- Led design and development of hybrid mobile + web automation framework using Appium and Selenium.
- Automated 200+ test scenarios for iOS and Android real devices, simulators, and emulators.
- Assigned sprint tasks, participated in planning, and mentored junior team members on framework usage.
- Conducted code reviews and framework maintenance to ensure long-term stability and efficiency.
- Tracked defects in JIRA and maintained full Requirements Traceability Matrix (RTM).

Test Yantra Software Solutions (Dec – 2017 to Dec - 2018)

Proteus Digital Medicine — Mobile Application

Healthcare digital medicine platform measuring medication effectiveness using ingestible sensors, wearable patches, and mobile applications

Tech Stack: Python, Behave (BDD), Appium, JIRA, Bitbucket

Key Responsibilities

- Developed BDD automation framework using Python + Behave + Appium for real device testing.
- Created test scenarios following BDD approach ensuring business-readable test documentation.
- Involved in performance testing of mobile API integrations to validate data sync reliability.
- Conducted code reviews and framework maintenance for a healthcare-regulated environment.

ACHIEVEMENTS & CERTIFICATIONS

- **Artificial Intelligence and Machine Learning For Industry** — Certificate Programme from Indian Institute of Technology (IIT) Delhi. Covers practical AI/ML concepts includes industry applications.
- **Certified Kubernetes Administrator (CKA)** — Advanced Kubernetes skills for deploying and managing containerized test solutions for scalable quality engineering.
- **Perfecto Engineer Certified** — Selenium & Appium with Java (cloud-based real device testing).

KEY COMPETENCIES

Test Automation Leadership	End-to-End Quality Engineering	CI/CD Pipeline Integration
Mentoring & Team Development	Cross-platform Quality Assurance	Agile / Scrum Delivery
BDD / TDD Frameworks	Cross-functional Collaboration	AI-Powered & Intelligent Testing (RAG, LangChain, Langflow, n8n, MCP)