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**QA Automation Engineer | Test Automation & Software Development Test Engineer | Selenium Automation**

**About Me**  
 QA Automation Engineer with over 8 years of progressive IT experience, specializing in manual, functional, performance, ETL and automation testing. Expert at designing and implementing robust automation frameworks and writing test scripts using Selenium WebDriver, TestNG, Rest Assured, Cucumber, Python, Cypress and Playwright. Proven track record across e-commerce, banking/fin-tech, healthcare and supply-chain domains, executing tests in both on-premises and cloud environments (AWS, Azure, GCP). Skilled in accessibility testing and remediation to ensure WCAG 2.1 and Section 508 compliance across web, mobile and PDF assets.

**Diversified Experience**  
 – **Technology Platforms:** Java/J2EE, .NET, Spring Boot, Microservices, ReactJS, HTML5/CSS3, C#  
 – **Domain Expertise:** 3+ years in e-commerce/CRM (manual → automation in AWS) and 3+ years in banking/financial database testing (Snowflake, SQL Server, Oracle)  
 – **Data & AI/ML Testing:** Validated predictive models (Neural Networks, Decision Trees, Logistic Regression, Random Forest), automated ETL pipelines and monitored model drift; leveraged Tableau and Power BI for data integration and stakeholder reporting  
 – **Cloud & DevOps:** Built and containerized test environments with Docker, Kubernetes and Terraform; integrated automated suites into Jenkins, TeamCity, Azure DevOps and Bitbucket Pipelines  
 – **Mobile & Web Automation:** Developed Appium frameworks for iOS/Android and automated React/Angular UIs; executed cross-browser, cross-platform and API tests for complex financial transactions and user-authentication workflows

This combination of hands-on automation, full-stack testing and cloud-native practices ensures scalable, reliable QA delivery aligned to modern software lifecycles.

**PROFESSIONAL SUMMARY:**   
 Accomplished QA Automation Engineer / SDET with 8 years of experience in Banking, FinTech, E-commerce, Healthcare and Supply Chain. Expert at architecting POM-based frameworks (Selenium, Cypress, Playwright, Appium) and driving functional, regression, UI, API and cross-browser testing. Skilled in cloud-native testing (AWS, Azure, GCP), DevOps/CI-CD (Jenkins, TeamCity, Azure DevOps, Docker, Kubernetes, Terraform) and performance/security validation. Proven ability to validate AI/ML pipelines and big-data ETL, as well as automate complex banking payments (MTS, UPF, SWIFT). Strong collaborator in Agile teams; mentor who boosts QA productivity by 30%.

TECHNICAL SKILLS

* **Test Automation & Quality Assurance**
* UI & Web Testing: Selenium WebDriver, Cypress, Playwright, Protractor, Cucumber, TestNG, JUnit
* API Testing: Postman, REST Assured, SOAP UI, Python Requests, EasyRepro (C#)
* Frameworks: Page Object Model, BDD/TDD, data-driven designs using Maven, GitHub Copilot scaffolding
* Coverage: Functional, regression, database, GUI, UAT and cross-browser across web, mobile and API layers

**Cloud, DevOps & CI/CD Integration**

* Cloud Platforms: AWS (EC2, S3, Glue, Redshift), Azure (Data Factory, Synapse, CosmosDB, Databricks), GCP
* CI/CD & Containerization: Jenkins, TeamCity, Bamboo, Azure DevOps, Bitbucket Pipelines, Docker, Kubernetes
* Infrastructure as Code: Terraform for provisioning test environments and microservices automation

**Mobile & Web Applications Testing**

* Mobile Automation: Appium for iOS & Android (Android SDK, Xcode, Sauce Labs)
* Front-end Frameworks: ReactJS, Angular, React Native, PWAs (HTML5/CSS3)
* Banking Modules: MTS and UPF frameworks for wire transfers, bulk settlements and SWIFT messaging

**AI/ML Testing & Data Engineering**

* Model Validation: Neural Networks, Decision Trees, Naive Bayes, Logistic Regression, Random Forest
* ETL & Big Data: Azure Data Factory, AWS Redshift, Snowflake; SQL, Teradata, Python (Pandas/NumPy)
* Analytics Testing: Power BI and Tableau for report accuracy and data integrity

**Performance, Security & Compliance Testing**

* Load & Stress: JMeter, LoadRunner, Tricentis NeoLoad for 2K–5K concurrent users; sub-2s transaction tuning
* Security: Burp Suite, OWASP ZAP; HIPAA, GDPR, PCI-DSS compliance checks and remediation
* Accessibility: PDF/ARIA audits and WCAG/Section 508 validation

**Geospatial & Mapping**

* ArcGIS Pro & ArcGIS Online automation
* Python scripting with arcpy for map service and spatial data tests

**Skills & Tools**

* **Manual Testing:** Test-case design, test-cycle management, defect tracking
* **Salesforce Testing:** Sales Cloud, Service Cloud, custom-object validation
* **nCino Platform:** Commercial lending modules (loan origination, collateral management)
* **Test Management:** JIRA, Zephyr, Rally, TestRail, qTest, Confluence

**Agile & Test Management Expertise**

* Methodologies: Scrum, SAFe, STLC, BDD/TDD
* Collaboration: Refining user stories with Product Owners, sprint QA planning
* Mentorship: Coached junior QA engineers on automation best practices, boosting team productivity by 30%

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| --- | --- |
| **Testing Tools** | Selenium (WebDriver/IDE/GRID), QTP, HP Quality Center, JUnit, Cucumber, TestNG, SOAPUI, Appium, JMeter, Rest Assured, LoadRunner, **Tricentis TOSCA** |
| **Programming Languages & Scripting** | Java, JavaScript, Python, C, C#, VBScript, Shell Script, PowerShell, Gherkin |
| **Test Frameworks** | TDD, BDD, JUnit, Jasmine, Protractor |
| **Web Testing Tools** | Selenium, Cypress.io, QTP, JUnit, TestNG, SOAPUI, Appium, Tricentis NeoLoad |
| **Web Development** | HTML, XML, CSS, React, Angular |
| **API & SOA Testing** | SOAP, REST, Web Services, Postman, SOAPUI, JSON |
| **Defect & Test Management** | HP Quality Center, Bugzilla, JIRA, Rally, Visual Studio TFS, HP ALM |
| **Build & CI/CD Tools** | Jenkins, Maven, Ant, Hudson, Bamboo, Bitbucket, Azure DevOps |
| **Database Technologies** | MS SQL Server, Oracle 19c, TSQL, MongoDB, Snowflake, Cosmos DB, Aurora, MySQL, SQL\*Loader |
| **Software Development Methodologies** | Agile (Scrum), Waterfall, SDLC, STLC |
| **Automation Frameworks** | Keyword Driven, Data Driven, Hybrid, Page Object Model (POM) |
| **OS & Platforms** | Linux, Windows, Mac, JAMA Product Delivery Platform |
| **Project Management & Collaboration** | JIRA, Confluence, Wiki, Agile Requirements Designer |
| **Accessibility Testing & Automation** | (WCAG 2.1/2.2, Section 508, ADA) (axe-core, Pa11y, WAVE, Tenon.io). |
| **Data Warehousing & Modeling** | Star Schema, Snowflake Schema, Erwin, MS Visio |
| **BI & Reporting Tools** | Tableau, Tableau Server, Power BI, QlikView, Crystal Reports, SSRS, Splunk |
| **DevOps & Cloud Automation** | Jenkins, CI/CD, Terraform, AWS, Azure |

EDUCATION

* **Master’s** in computer and information sciences from Governor’s State University (2022), USA

* **Bachelor** of Engineering in Computer Science from CMRIT(JNTUH University 2017), India

CERTIFICATIONS

* **ISTQB** **Certified Tester**
* **Certified Software Quality Analyst**

WORK EXPERIENCE

**Client: UBS (Bank), Weehawken NJ**   **Sept 2023 - Current**

**Role: QA/SDET Automation Engineer**

**Domain: Banking**

**Project Description: P**roject involved UI API testing for a dynamic python-based web application using modern web technologies such as ReactJS, JavaScript, and NodeJS. Application was hosted on AWS cloud, with a UI that leverages HTML5, CSS3, ReactJS, and AWS services. Involved in testing both UI layouts and API modules, focusing on testing financial modules, automation, and migrating the software systems UI to current browser standards Automated the testing of a mobile banking application supporting both iOS and Android devices applications involved complex financial transactions, user authentication, and integration with banking APIs.

**Key Responsibilities**

* Tested a Python-based web app (ReactJS, JavaScript, NodeJS) hosted on AWS with UI built in HTML5/CSS3, ensuring migration of legacy UI to current browser standards
* Developed and executed UI/API test plans for financial modules, user authentication flows and banking-API integrations
* Automated end-to-end mobile banking tests (iOS/Android) for complex transactions, login/authorization and RESTful workflows
* Conducted performance (LoadRunner, BlazeMeter) and security (Burp Suite, OWASP ZAP) tests at 2K–5K users, partnering with InfoSec on ISO 27001 remediation

**Roles & Responsibilities**

* Architected POM-based frameworks for web (Selenium WebDriver, Cucumber, TestNG, Python) and mobile (Appium on iOS/Android) with BDD/TDD and data-driven patterns
* Built REST-API suites for account services, transactions and loan calculations in Rest Assured, Python’s Requests, Postman and EasyRepro (C#)
* Automated Angular and React Native UIs with Protractor, Playwright (TypeScript) and YAML-driven configs; integrated into nightly CI builds and shared component libraries
* Orchestrated CI/CD in Jenkins, Bamboo, TeamCity and Bitbucket Pipelines—automating test runs, yamllint validation, report publishing and alerts via Splunk, Grafana and AWS CloudWatch.
* Verified OAuth 2.0, JWT and API-Key–based authentication flows within automated API tests.
* Created ETL test cases for banking transactions and fraud pipelines in Azure Data Factory, AWS Redshift and Snowflake; performed CRUD, SP and trigger testing on MS SQL Server and Oracle
* Wrote manual and exploratory test cases for web, mobile and CMS apps (UKG Dimensions, nCino); logged and triaged defects in JIRA, Bugzilla, ServiceNow and qTest.
* Wrote ArcPy scripts to batch-validate client location datasets (coordinate accuracy, topology rules) against UBS’s ArcSDE geodatabases.
* Built automated REST-API tests for ArcGIS services to verify endpoint reliability, response schemas, and error handling for branch-locator operations.
* Developed and maintained a Rest Assured–based API automation framework in Java/Spring Boot to validate **Calypso** trade-capture, confirmation, and settlement services.
* Designed BDD scenarios in Cucumber covering end-to-end trading workflows (trade entry, enrichment, lifecycle events) against **Calypso** WebSuite APIs.
* Automated UI regression suites for **Calypso’s** web front-end using Selenium WebDriver with the Page Object Model, increasing coverage by 60%.
* Participated in Agile ceremonies, refined user stories with POs, authored Cucumber features and published dashboards/reports in Confluence.
* Developed end-to-end automated test suites using **Calypso** Automated Testing Tool (CATT), covering trade capture, enrichment, booking and confirmation workflows across FX, rates and credit products.
* Authored reusable CATT scripts in Java to bulk-load market/static data, execute batch jobs and reconcile P&L, positions and collateral outputs, reducing manual regression effort by 50%.
* Integrated CATT-based tests into Azure DevOps CI/CD pipelines (YAML), enabling nightly regression runs with automated pass/fail reporting and email notifications.

**Tools & Technologies**  
 Selenium WebDriver · Cucumber · TestNG · Python · Rest Assured · Protractor · Playwright · TypeScript · Appium · C# · Postman · EasyRepro · Jenkins · Bamboo · TeamCity · Maven · Azure DevOps · SQL Server · Oracle · Snowflake · AWS · Azure · LoadRunner · BlazeMeter · Burp Suite · OWASP ZAP · Splunk · Grafana · ArcGIS Pro/Online · qTest · JIRA · Confluence

**Client: Samsung Research America, Mountain View CA Feb 2022 – Aug 2023**

**Role: QA Engineer/ Test Automation**

**Domain: Digital Health**

### **Project Description:** The Samsung Digital Healthcare Platform is an integrated health management solution designed to provide users with personalized insights, remote monitoring, and real-time health tracking through connected devices. The platform enables seamless synchronization of medical data from wearables, smartphones, and third-party health systems, empowering users to take proactive control of their wellness and chronic conditions.

**Key & Responsibilities:**

* Designed and implemented end-to-end test plans (functional, regression, smoke) and automation suites across web (Angular), API (REST/SOAP), mobile, and embedded-device layers using Selenium, Playwright (TypeScript), Appium, Python (pytest/Robot), Postman, Rest Assured, and Maven
* Architected modular, reusable test frameworks from scratch in Playwright (TypeScript) and Python (POM, BDD with Cucumber/Behave, data-driven), leveraging GitHub Copilot to reduce setup time by 40%
* Validated Spring Boot microservices on PCF and AWS—testing Workday, ArcGIS, and Kafka endpoints via SOAP/UI, Postman, and custom Python scripts; automated smoke and regression tests for ArcGIS REST services
* Integrated automated tests into CI/CD pipelines (Jenkins, GitHub Actions, Azure DevOps, TeamCity, AWS CodePipeline/CodeBuild) with nightly runs, Allure/HTML reporting, and automated mobile builds to TestFlight and Google Play
* Executed high-concurrency performance and load tests (2,000–5,000 users) using NeoLoad, LoadRunner, and Gatling; identified API throughput bottlenecks and improved page-load times by 40%

**Roles & Responsibilities**

* Automated data-pipeline validation for AWS Glue, Azure Data Factory, and Snowflake; verified HIPAA-compliant HL7/FHIR transformations using Python (Pandas/NumPy)
* Conducted firmware-flash, sensor diagnostics, and hardware-in-the-loop (HIL) testing on embedded health devices and robotics fixtures with OpenCV-based vision tests
* Developed Python-based automation scripts using the ArcGIS API for Python to publish and verify map services on ArcGIS Online, reducing manual validation effort by 50%.
* Designed ArcPy workflows to batch-validate spatial datasets for coordinate accuracy and topology compliance across enterprise geodatabases.
* **SDET** Produced actionable test metrics and trend analyses (pass/fail rates, defect density, coverage) to guide release readiness meeting
* Implemented automated connectivity and performance tests against ArcSDE geodatabases, ensuring schema consistency and optimized query response under load.
* Partnered with InfoSec to run event-driven penetration tests (Burp Suite, OWASP ZAP), implement ISO 27001 controls, and perform PDF/ARIA accessibility audits to meet WCAG/Section 508 standards
* Collaborated directly with clients and cross-functional teams to refine requirements, demo test results, and triage defects (JIRA/ServiceNow); built real-time monitoring dashboards in Splunk and Grafana
* Specialized in domain-specific testing for POS (EMV, NFC, ISO 8583), Salesforce & Dynamics 365 integrations (EasyRepro, SSIS), and Bluetooth Classic/BLE on mobile and embedded platforms.

### **Tools and Technologies Used: S**elenium, Appium, Cucumber, TestNG, SoapUI, Postman, Rally, Jira, Java, JavaScript, SQL, HTML, CSS, Gherkin, Spring Boot, Maven, BDD (Cucumber), TDD, Selenium WebDriver, Cassandra, SQL, Oracle, snowflake, **CI/CD Tools**: Jenkins, Bitbucket, Bamboo, Pivotal Cloud Foundry (PCF), GCP, **Mobile Testing**: Appium Desktop, Appium Inspector **Reporting & Visualization**: Tableau, Power BI, Git, GitLab **Other Tools**: Docker, Maven, Postman

**Client: Bank of America, New York**   **June 2021 – Dec 2021**

**Role: Quality Assurance Analyst/ SDET**

**Domain: Banking**

### **Project Description:** The Financial Dashboard and Alerts project aimed to provide Bank of America customers and analysts with a real-time, interactive dashboard to monitor financial transactions, detect patterns, and receive instant alerts. The system supports massive transaction throughput with data streaming and analytics features, ensuring actionable insights and fraud detection through intelligent triggers.Designed and implemented end-to-end data pipelines for customer onboarding, KYC, credit-risk analysis, and regulatory reporting using Azure Data Factory, Databricks, Informatica, T-SQL, Spark SQL, and U-SQL.

Roles & Responsibilities:

* Developed data-driven Page Object Model test frameworks in C#, Java, Python, and TypeScript with Selenium WebDriver, UFT, Cypress, TestNG, and NUnit to automate functional, regression, and API testing.
* Automated mobile application testing for iOS and Android across emulators, real-device labs, and Sauce Labs, covering 15+ browser/device combinations.
* Authored Gherkin feature files and Cucumber step definitions to implement Behavior-Driven Development (BDD) and drive automated acceptance tests.
* Contributed to Spring Boot microservice architecture using Spring Cloud, AOP, and Web MVC; built and exposed RESTful APIs and validated services on AWS EC2, RDS, and Azure.
* Configured and maintained CI/CD pipelines with Jenkins, GitHub Actions, TeamCity, and Bamboo to build, deploy, and execute automated tests on every commit.
* Created Kubernetes manifests and Helm charts to parameterize multi-environment (dev/stage/prod) deployments.
* Mentored junior QA engineers on **Calypso** test harness setup, best practices for test data management, and secure-coding guidelines (OWASP Top 10).
* Validated and optimized APIs migrated from MuleSoft to AWS API Gateway and Lambda by developing Java-based Rest Assured test suites and Postman collections. Ensured functional parity, security (OAuth 2.0 / JWT) and performance benchmarks, and integrated tests within a Jenkins/GitHub Actions CI/CD pipeline.
* Leveraged **VisualVM** to profile JVM-based analytics services, identifying hotspots and reducing GC pauses by 25%.
* Integrated suites into Jenkins/Git pipelines, with nightly runs and Allure reporting.
* Mentored two junior SDETs on Page Object Model frameworks, raising team automation coverage by 30%.
* Automated Active Directory–backed login flows in UI/API tests for the mortgage-eligibility portal.
* Emulated message spikes on **RabbitMQ** brokers to validate BofA’s real-time alerting pipelines under load.
* Integrated Dynamics 365 Sales & Customer Service modules with Azure Logic Apps, Azure Functions, and external REST APIs; developed Model-driven and Canvas apps in Power Apps and interactive Power BI dashboards.
* Participated in Agile Scrum ceremonies (daily stand-ups, sprint planning, backlog grooming, retrospectives), provided accurate estimates, and managed defects in JIRA.
* Automated UI smoke tests of interactive mortgage-eligibility maps using the Esri JavaScript API (v3.x & v4.x) with Playwright/TypeScript, covering layer toggling and pop-up workflows.
* Created ArcGIS API for Python scripts to orchestrate nightly data pushes and service-health validations for BofA’s internal GIS portal.
* **SDET,** Enforced secure-coding best practices by embedding OWASP Top 10 security checks into automated test suites and performing vulnerability scans.
* Collaborated with architects and business analysts to interpret **Calypso** XSDs and configure XML-based trade messages, enforcing schema compliance.
* Mentored junior QA engineers on **Calypso** test harness setup, best practices for test data management, and secure-coding guidelines (OWASP Top 10).
* Implemented JavaScript and JSP client-side validations to enforce data integrity and enhance UI behavior.
* Built scalable Automatics-driven test suites for revenue dashboards, P&L reports, and SWIFT messaging flows (MT-103/MT-202), integrating with CI pipelines to validate complex calculations under peak load.

### **Tools and Technologies Used:** Selenium WebDriver, Appium, TestNG, JUnit, Cucumber, Maven, JIRA, Java, C#, JavaScript, Python, T-SQL, Spark SQL, U-SQL, Data-driven Page Object Model (POM), Spring Boot, Spring AOP, Spring Web MVC, AWS EC2, AWS RDS, Azure Data Factory, Azure Databricks, Azure SQL, SOAP UI, Postman, Sauce Labs, Appium Desktop & Inspector, See Test, Git, SVN, Jenkins, Bitbucket, Azure SQL, Oracle, SQL Server, Cassandra, Jira, Maven, Log4j, Ribbon, Power BI, Tableau

**Client: Accenture, Bangalore, India**   **June 2017 – Nov 2020**

**Role: Quality Assurance Engineer**

**Domain: HealthCare**

### **Project Description: Healthcare HIPAA-compliant Project** involved automating and testing an **OpenEMR (Electronic Medical Records)** system for a healthcare organization. OpenEMR is an open-source software used for managing electronic health records (EHR) and medical practice management. The system is required to be fully compliant with the **Health Insurance Portability and Accountability Act (HIPAA)** for ensuring patient data confidentiality and security.

**Key Contributions**

* Designed and implemented Blue-Green deployment pipelines under Git-Flow, ensuring zero-downtime production releases
* Developed and maintained CI/CD workflows in Jenkins, Azure DevOps, GitHub Actions, and GitLab CI using PowerShell and reusable YAML templates
* Containerized Java microservices with Docker and Maven; deployed to AWS ECS for scalable, cloud-native orchestration
* Architected a scalable Java-based automation framework (Selenium, TestNG, Cucumber) integrated into Jenkins for maintainable testing
* Automated end-to-end web UI tests with Cypress and Selenium WebDriver across Chrome, Firefox, Safari, and IE
* Implemented mobile automation for iOS and Android via Appium on Sauce Labs, enabling real-device, cloud-distributed testing
* Validated RESTful/SOAP services with Postman, SOAP UI, and REST Assured; executed NeoLoad stress tests to boost service stability by 30%
* Configured and tested Trizetto Facets claims-and-benefits modules; led Business Acceptance Testing (BAT) cycles as Subject-Matter Expert
* Conducted HIPAA security and privacy testing—enforcing data encryption, access controls, and secure transmission mechanisms

**Roles & Responsibilities**

* Participated in Agile ceremonies (sprint planning, backlog grooming, stand-ups, reviews) to translate requirements into test plans, scenarios, and data
* Designed comprehensive test plans covering functional, regression, UAT, and BAT to ensure HIPAA compliance and data integrity
* Managed end-to-end test case traceability and defect reporting in Zephyr integrated with JIRA; communicated status and metrics to stakeholders
* Authored and maintained BDD feature files and step definitions in Cucumber to automate critical healthcare workflows (patient management, appointments, billing)
* Mentored and coached junior testers on claims configuration, automation best practices, and domain-specific processes
* Documented test results, created UAT reports, and facilitated defect closure to ensure readiness for production hand-off.
* Implemented SAP S/4 HANA and SAP FI module testing—manual, regression, functional, end-to-end and UAT—using Tricentis TOSCA across GL, AP and AR; collaborated with functional business leads, BT and operations teams through two full-cycle SAP implementations.
* Performed runtime memory and CPU profiling of Java microservices using **JProfiler** and **VisualVM**, pinpointing and resolving memory leaks to reduce peak heap usage by 20%.
* Employed **YourKit** and **dotTrace** to analyze .NET component performance, optimizing critical routines and improving transaction throughput by 15%.
* Configured **VMware vSphere** test VMs to mirror production environments—leveraging snapshots for repeatable, cross-team test deployments.
* **SDET**: Mentored junior QA engineers on test automation design, code reviews, and CI/CD integration, fostering a culture of quality and continuous improvement.

### **Tools and Technologies Used:** Selenium WebDriver, Cypress, Appium, Cucumber, TestNG, Maven, Junit, Java, Python, Groovy, JavaScript, Go, C #, .net, Git, Bitbucket, SVN, Jenkins, TFS/Azure DevOps, Maven, PowerShell, Docker, AWS ECS, AWS EC2, AWS RDS, SOAP UI, Postman Mobile **Testing**: Appium, Sauce Labs, HTML, CSS, XPath, JavaScript, HIPAA compliance testing tools, Security testing tools