Resume – Senior SDET | AI & Automation Testing (6+ Years)

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# Professional Summary

Innovative \*\*Software Development Engineer in Test (SDET)\*\* with \*\*6+ years of experience\*\* specializing in \*\*AI-driven testing and automation\*\* across Web, Mobile, API, Database, and Performance testing. Proficient in multiple programming languages (\*\*Java, C#, Python, JavaScript\*\*) and skilled in designing scalable automation frameworks. Hands-on expertise in implementing \*\*AI-powered solutions for bug detection and automated issue resolution\*\* within enterprise-scale projects (SCCM – Microsoft). Proven ability to enhance quality engineering through intelligent automation, CI/CD integration, and advanced testing strategies. Experienced in diverse domains (Banking, Healthcare, Industrial Automation, Cloud, and Enterprise Applications), including \*\*onsite client engagement in the UK for Atom Bank\*\*.

# Technical Skills

* Programming: Java, C#, Python, JavaScript, PowerShell
* Automation Frameworks: Selenium, Playwright, Appium, TestNG, Pytest, BDD (Cucumber), NUnit, JUnit
* API Testing: REST Assured, Postman, HTTP Client libraries
* Mobile Testing: Appium (Android & iOS) with C# and Java
* Performance Testing: JMeter
* AI/ML in Testing: AI-based bug detection & resolution agents, Test impact analysis using ML models, NLP for test case generation, Self-healing automation: Healenium (for Selenium), custom AI healing layer (for Playwright)
* CI/CD & DevOps: Jenkins, Azure DevOps, Git, GitHub, Bitbucket
* Test Management & Defect Tracking: JIRA, TestRail, Azure Test Plans
* Database Testing: SQL Server, Oracle, MySQL
* Other: Accessibility Testing (axe-core), Visual Regression Testing, AEM testing
* Cloud & Development Exposure: .NET Framework, SCCM, Azure

# Professional Experience

## LTIMindtree – Client: Microsoft (SCCM Project)

Senior SDET | Jul 2022 – Present | Technologies: JavaScript, Playwright, .NET, C#, PowerShell, AI-based Testing

* Designed and executed automated test scripts using Playwright with JavaScript for web applications and C# with PowerShell for backend validation.
* Built end-to-end automation solutions covering UI, API, and Database testing, integrated with Azure DevOps CI/CD pipelines.
* Developed an \*\*AI-based Agent for automated bug fixing\*\*, enhancing issue detection, reducing manual debugging efforts, and improving resolution accuracy.
* Researched and implemented \*\*AI-powered test optimization strategies\*\*, such as test impact analysis and predictive failure detection.
* Collaborated with developers, business analysts, and product owners to ensure maximum test coverage in agile sprints.
* Improved automation efficiency by creating reusable libraries and utilities, reducing test maintenance effort.

## Symphony Plus (Industrial Automation Domain)

Automation Engineer | Apr 2021 – Feb 2022 | Technologies: Python, Pytest, JMeter

* Developed automation framework using Python (Pytest) for UI and API testing.
* Conducted Performance Testing using JMeter to validate application scalability, reliability, and response times under load.
* Integrated Python scripts with monitoring tools to collect metrics for system optimization.
* Performed Database validations and REST API testing, ensuring end-to-end functional coverage.

## BioReference Laboratories (Healthcare Domain)

Automation Test Engineer | May 2020 – Mar 2021 | Technologies: Java, Selenium, TestNG, BDD

* Built Selenium-based automation framework using Java + TestNG with BDD (Cucumber) for UI regression and functional testing.
* Automated UI, API, and DB test cases, reducing manual regression effort significantly.
* Integrated automation suite with Jenkins CI/CD pipeline, enabling nightly execution and reporting.
* Collaborated with QA and Dev teams to enhance test coverage and resolve defects early in the SDLC.

## QualiTest – Client: Atom Bank (Banking Domain, UK Onsite)

Automation Test Engineer | Mar 2019 – Apr 2020 | Technologies: C#, Appium, API Testing

* Onsite experience (UK): Collaborated directly with client teams at Atom Bank HQ to implement automation solutions.
* Automated Mobile applications (Android & iOS) using Appium with C#, ensuring robust mobile banking functionality.
* Performed API and UI testing for Atom Bank’s digital applications, validating cross-platform consistency.
* Executed functional, regression, and compatibility testing for critical banking workflows.

# Education

Bachelor of Computer Applications (BCA) – The University of Burdwan, 2012

# Key Highlights

* 6+ years of expertise in Automation & Performance Testing across Web, Mobile, API, and DB.
* Specialized in \*\*AI-driven testing\*\*, including bug detection, automated bug fixing, and predictive analytics.
* Strong command over Java, C#, Python, JavaScript and modern automation frameworks.
* Proven ability to design automation frameworks from scratch and integrate them with CI/CD pipelines.
* Onsite experience in the UK (Atom Bank) delivering automation for Mobile and API applications.
* Hands-on experience in Banking, Healthcare, Industrial Automation, and Cloud domains.
* Delivered end-to-end automation solutions, accelerating releases and improving product quality.