**ASIT SAHOO**  
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### **Professional Summary**

Experienced Senior Lead SDET with 9+ years of expertise in designing and implementing Hybrid Automation Frameworks for Web, Windows, and API applications. Proficient in leveraging Generative AI to enhance quality engineering processes, building robust AI-powered testing solutions, and enabling CI/CD-driven automation. Adept in Agile methodologies, test strategy, and framework architecture, with a strong passion for driving innovation and efficiency in automation.

### **Skills**

**Programming & Scripting Languages:**  
Python, Java, C#, SQL, Java Script, Shell Scripting, Windows Batch Scripting, HTML,CSS

**Automation & Testing Frameworks:**  
Selenium WebDriver, Playwright, Robot Framework, PyTest, TestNG, Cucumber/SpecFlow (BDD), NUnit, TestStack.White, UI/API Automation, Functional Testing, Test Planning & Strategy

**DevOps & Version Control:**  
Git, Jenkins, Azure DevOps, CI/CD Integration, Linux & Windows Environments

**AI, ML & Modern Tech Stack:**  
Prompt Engineering, RAG, Agentic Framework, LangChain, LangGraph, Langfuse, Hugging face models, LLM-based Automation, Transformers, MCP Server, Vibe Coding

**Software Design & Architecture:**  
SOLID Principles, Design Patterns, Object-Oriented Programming (OOP), Code Optimization & Best Practices

**Additional Skills:**  
Cloud Awareness (Azure), API Testing & Automation, Database Testing, Agile/Scrum Methodologies, Test Documentation & Reporting, QA Architect

### **Professional Experience**

**Senior Lead SDET**  
*PubMatic | Pune | Nov 2021 - Present*

* Involved in writing automation scripts for multiple products using Robot and PyTest frameworks.
* Designed, built, and maintained a comprehensive PyTest framework.
* Enhanced productivity and efficiency for Dev & QA teams by implementing multiple Jenkins tools with a left shift approach.
* Designed and implemented an advanced AI-powered chatbot to assist publishers, solution engineers & internal engineering team in automating routine tasks and enhancing productivity using GenAI technologies including RAG**, LangChain, LangGraph, Langfuse, Transformers, Hugging Face models, MCP server, and agentic frameworks** for autonomous & real-time decision-making.
* Developed a Test Case Generator using Gen AI and Streamlit that integrates with Jira, Confluence & user inputs and automatically generates test cases.
* Streamlined code review process by integrating Bito code review agent in Git, resulting in automated pull request reviews.
* Developed a comprehensive automation framework to facilitate cross-functional team integration testing without requiring manual intervention.
* Defined and tracked quality assurance metrics, including test results, defect counts, and performance discrepancies.
* Integrated local QA Jenkins pipeline to Dev Centralized Jenkins CI pipeline.
* Maintained traceability matrix, shared test summary reports on a weekly basis.
* Managed various BHAG projects within the SDET organization including GenAI, Code Coverage, and Grafana dashboard logging.
* Demonstrated hands-on experience in SQL, Unix, Docker, Selenium, and API testing.
* Streamlined and optimized the testing process, achieving a significant reduction in execution time for more than 2000 test cases – from an average of 6 hours down to only 1 hour.
* Managed SDET team of 5 as team lead.
* Contributed many features to Prebid.js open source repo which deals with programmatic advertisement.
* Collaborated with cross-functional team members, including product owners and developers to develop effective testing strategies and deliverables.

**Senior SDET**  
*Pegasystems | Hyderabad | Jan 2019 - Oct 2021*

* Involved in developing automation frameworks for multiple projects and adding new test scripts for new features through Selenium on Hybrid framework using Specflow, POM design pattern and NUNIT.
* Responsibilities include preparing test plans, mentoring QA team members, grooming user stories, writing test scenarios, preparing test environment, creating/maintaining/ enhancing automation scripts, test execution, defect tracking, generating QA reports & metrics and documentation review.
* Identify feasible, testable events and develop the automation test scripts.
* Defined and tracked quality assurance metrics, including test results, defect counts and performance discrepancies.
* Reduced overall testing hours by 30% by writing and optimizing automation test scripts.
* Work with development teams to support multiple testing efforts simultaneously.
* Developed applications using WPF and WinForms to ease the data generation.
* Assurance of product quality through following best practices, code inspections, peer reviews, unit testing and other forms of engineering excellence.
* Developed test plan and test cases; Performed test execution, defect reporting & reverification.
* Maintained traceability matrix, Shared Test summary reports on weekly basis.
* Implemented CI/CD pipeline using Jenkins.
* Actively involved with Knowledge Sharing, Walkthrough Sessions, and test script reviews.

**Systems Engineer**  
*Tata Consultancy Services | Hyderabad | Jul 2016 - Jan 2019*

* Involved in enhancing of test automation framework and developed automated tests using Selenium, Java hybrid framework.
* Wrote, reviewed, and optimized test cases to maximize success of manual software testing with consistent, thorough approaches.
* Automated test cases using Selenium with Hybrid framework and POM design pattern.
* Automated API test cases using Rest Assured.
* Responsible for developing test plan, test procedures and test data.
* Identification of Reusable Components in the framework.
* Responsible for generating test Report, reporting test results and bugs.
* Handled regression test execution for both Manual and automation which involved executing manual test cases, automation regression suite, defect logging and reporting.
* Collaborated with dev team and Onsite counter parts to stay current on product features and intended functionality.

### **Education**

**B.Tech, Electronics and Communication Engineering**  
ITER, SOA University, Bhubaneswar, Odisha | CGPA: 9.3 | Jan 2016

**Senior Secondary (Class XII)**  
Mother’s Public School, Bhubaneswar | GPA: 85% | Jan 2012

**Secondary (Class X)**  
Maharishi Vidya Mandir, Nayagarh | GPA: 9.4 | Jan 2010

### **Awards and Recognitions**

* 3x Team Player Award – PubMatic
* 2x Biased Towards Action Award – PubMatic
* Innovation Award – PubMatic
* Pega Excellence Award – Pegasystems
* Wow Award – Pegasystems
* Excellent Performance and Commitment Award – TCS-JPMC
* Best Team Award – TCS
* Zeta 2016 Winner, TCS
* ILP Ideathon 2016 Winner – TCS
* ILP Kudos Award – TCS

### **Accomplishments**

* 2024 & 2025 Hackathon Special Accolade Winner in PubMatic

### **Languages**

* English: Fluent (C2)
* Hindi: Proficient (C2)
* Odia: Proficient (C2)