Satish Mashale

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I'm Satish, a seasoned QA Software Engineer with over 11+ years of experience in the world of software automation. My passion lies in crafting robust automation frameworks and solving complex challenges in the software testing domain.

 Technical Skills:

Languages: Python, Java ,shell

Automation Frameworks and libraries: Robot Framework, PyTest, selenium, cypress ,tesseract

Tools: Jenkins, Docker, Kubernetes, WebDriver, Selenium, Zalenium

Version Control Systems: Git

Databases: MySQL, Redis

Bug Tracking/Management Tools: Jira, Confluence

Operating Systems: Linux (CentOS), Windows, macOS

 Automation Frameworks & Stream Testing Expertise

I have independently built and deployed multiple end-to-end automation frameworks from scratch, tailored for both functional and non-functional testing. These include:

- **Framework Development**: Designed and implemented robust, scalable automation frameworks using **Python** and **PyTest**, **Robot Framework**, and **JUnit**, supporting reusable component-based test strategies.
- **Streaming QA Automation**: Engineered comprehensive stream validation frameworks to automate **HLS and DASH stream testing** across diverse smart TV platforms, including **Samsung,**

LG, Roku, and Android TV, leveraging open-source Python libraries for seamless execution and monitoring.

- **Custom Dash/HLS Player**: Developed a lightweight, **custom Python-based Dash/HLS player** to test and validate streaming assets, enabling deep validation logic for playback reliability, buffering, ad insertion, and error resilience.
- **Test Architecture**: Integrated automation into CI/CD workflows using Jenkins and containerized infrastructure, with extensive real-time reporting, monitoring, and alerting capabilities for test failures.
- **Device-agnostic Automation**: Utilized headless libraries, mock services, and image-based automation tools to execute tests on real devices and emulators with minimal manual intervention.

These initiatives significantly improved test coverage, reduced release cycle durations, and elevated the quality assurance process through automation-first principles.

Developed various tools and frameworks to enhance Quality Assurance processes:

- MySQL-docker: Implemented Dockerized MySQL environments, enabling realistic data testing and automation with scheduled data refresh functionalities.
- Video Helper: Created a Python-based tool for generating ad assets, specifically catering to negative testing scenarios
- report portal: Configured and customized Report Portal for streamlined daily QA reporting, extracting insights from automation flows for efficient monitoring.
- stream-validator: Engineered an automation tool for video playout validation, automating issue detection to ensure seamless playback.
- qa-docker: Designed a robust framework to simulate production-like environments for data testing and automation, featuring periodic data refresh capabilities.
- http-spoofer: Developed an API data mocking service to simulate negative testing scenarios, facilitating the emulation of domain redirect statuses during access to ads.txt files.
- Security Bot: Automated security tool tailored for API testing, identifying vulnerabilities and generating detailed reports for efficient remediation.
- UnifiedAPIFramework: Architected a versatile API automation framework widely employed at Pubmatic, providing comprehensive solutions for API testing.
- Screen Automation: Designed an innovative image-based automation tool for UI testing scenarios without traditional DOM structures, ensuring thorough test coverage.
- Android App Automation: Orchestrated the automation of Android applications using the Robot Framework and Appium, optimizing testing processes for mobile applications.

Cloud & Infrastructure: AWS (Terraform, SQS, Redis Cache, Node Pools, Load Balancers, Monitoring with Grafana, Linkerd)

Cloud & Infrastructure Skills:

- Proficient in creating and automating AWS infrastructure using Terraform.
- Experienced in deploying and managing services such as SQS clusters, Redis Cache, and Kubernetes Node Pools.
- Skilled in implementing and monitoring AWS services using tools like Grafana and Linkerd.
- Expertise in configuring and managing load balancer tools to ensure application scalability and reliability.

Employment Details:

1. Principal Software Automation Engineer at PubMatic (Jan 2014 - March 2023)

   Responsibilities at PubMatic:

- Designed and developed multiple Automation Test Environments and Frameworks from scratch.
- Spearheaded the implementation of Ads.txt and App-Ads.txt.
- Created automation frame work simulating complex cases of ads.txt using custom mock server
- Extensively automated API test cases and UI scenarios.
- Established Continuous Integration (CI) practices with Jenkins.
- Designed and developed spoofer frameworks in Flask.
- Reported and tracked defects using Jira, ensuring timely resolution.
- Conducted Knowledge Transfer sessions for new/junior team members.
- Optimised the automation frameworks to reduce run time and QA signoff time
- Managed new publisher related projects like publisher side blocklist , demand /DSP side blocklist etc

2. Lead SDET at Amagi (March 2023 - Present)

   Responsibilities at Amagi:

   - Managed various UI and API automation projects, contributing to a 43% reduction in automation execution times.
   - Conducted Automated validation of HLS and DASH stream validation projects .
   - Managed various UI and API automation projects.
   - Managed new streaming related projects like MIDROLL, PREROLL, PIP , Overlay, Lband ads.

- Advanced Automation Frameworks: Architected and implemented multiple automation frameworks from scratch, enabling robust, scalable, and reusable test solutions that significantly streamlined and standardized testing processes.
- Automated Stream Health Validation Tool (Amagi): Designed an innovative tool for HLS and DASH stream health validation. This tool is industry-first in automating stream launch and monitoring playback across Roku, Samsung, LG, and Android TV platforms. It continuously monitors playback, detects and reports issues in real time, reducing manual intervention and increasing operational efficiency in streaming validation.

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 academic:

Master's in Computer Application, Pune University of Pune, India (2013-15)

 Additional Information:

Proficient in Agile and Waterfall methodologies.

Strong understanding of containerization technologies like Kubernetes and Docker.

Familiarity with tools such as Report Portal and Cypress.

 Eager to connect with like-minded professionals, share experiences, and explore new opportunities. Feel free to message me for more information about my work or if you're interested in expanding your LinkedIn network. Let's connect and explore the exciting possibilities that lie ahead!