Vamshikrishna Seelamsetti

Senior QA Automation Engineer

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PROFESSIONAL SUMMARY

Detail-oriented and highly experienced **Senior QA Automation Engineer** with 4.5+ years of expertise in **Manual, Automated, and Performance Testing** of complex, large-scale applications. Proficient in functional, regression, integration, **API, database, and mobile testing**, with hands-on experience in designing, developing, and executing **automation frameworks**. Extensive knowledge of **Selenium WebDriver, JUnit, TestNG, Python, Java, and SQL,** with a proven track record of improving test processes in **Agile** and **Waterfall** environments.

SKILLS

Testing Tools and Frameworks: Selenium (WebDriver/RC, Selenium Grid), Cypress, QTP (Quick Test Professional), Appium, JUnit, TestNG, Firebug, FirePath, LoadRunner, JMeter, pyTest, Playwright.
Programming and Scripting Languages: Java, SQL, Python, C#, C++, VB.Net, ASP.Net, .Net, HTML, CSS, JavaScript, AngularJS, NodeJS, XML, XSLT.
Build, Deployment and CI/CD Tools: Jenkins, Hudson, ANT, Maven
Version Control Systems: GIT, GitHub, SourceTree, Subversion, TeamForge.
Cloud and Virtualization Platforms: AWS, SauceLabs.
Databases: Oracle, DB2, MongoDB, PhpMyAdmin, NoSQL, MySQL, SIIS
Test Management and Bug Tracking Tools: HP Quality Center, JIRA
Operating Systems: Windows XP/7/8, Mac OS, Linux, Android.
Database Connectivity and API: JDBC, REST

EXPERIENCE

o **QA Automation Test Engineer,** *Facilities Management-SEMO,* *Cape Girardeau, MO*   **April 2024 – Present**

- Designed, developed, and deployed automated testing solutions using **Selenium, Playwright,** and **Cypress** to ensure comprehensive **end-to-end test coverage** of WebTMA systems.
- Created and maintained **automated UI and API tests** for various functionalities, enhancing the **test suite's** scalability and efficiency in detecting **defects early in the SDLC**.
- Documenting **test automation strategies**, best practices, and procedural guidelines to standardize testing across teams, ensuring consistent, high-quality results.
- Integrated **automated test suites with CI/CD pipelines**, enabling **continuous integration** and ensuring that test automation runs seamlessly within the build process.
- Recorded, edited, and maintained **test automation scripts**, adjusting them to reflect changes in application features and functionality, ensuring ongoing compatibility with evolving releases
- Analyzed risks and document potential software defect impacts across areas such as **API, database**, and **regression testing**, ensuring comprehensive coverage and risk mitigation.
- Performed **integration, regression**, and **performance testing** to verify the seamless interaction between various system components, identifying and resolving defects through **detailed bug reports**, ensuring website stability and reliability in production environments.

o **Senior QA Automation Engineer,** *Spoors Technology Solutions,* *Hyderabad, India*   **Jan 2022 – July 2023**

- Developed and maintained **50+ automated test scripts** using **Selenium WebDriver, Java**, and **Maven**, leveraging **Data-Driven and Page Factory frameworks** to enhance test efficiency by **30%**.
- Conducted **100+ API validations** using **SOAP UI, Apache HTTP Client,** and **Groovy scripts**, ensuring **99% accuracy** in **SOAP/RESTful services** and seamless integration.
- Configured **Jenkins** pipelines for **CI/CD**, automated **AWS EC2 deployments** with **Elastic Load Balancers**, reducing deployment time by **40%** and improving scalability.
- Designed **Mavenized** performance scripts for testing **200+ API endpoints** and validated **SOA**-based applications using **SOAP UI**, enhancing system reliability by **20%**.
- Executed **500+ SQL queries** for **data validation**, including complex sub-queries and nested queries, ensuring **25% improved data accuracy** in reports.
- Led QA efforts, managing **100+ test cases** across **functional, regression**, and **UAT testing**, achieving **95% defect resolution** and delivering **high-quality** releases.
- Created **test plans**, **test cases**, and defect reports for **10+ enterprise applications**, conducted **UI/UX testing**, and ensured **zero critical defects** in production.

o **QA Automation Engineer,** *Mahendrada Softtech Solutions,* *Hyderabad, India*   **Nov 2019 – Oct 2021**

- Developed **3+ automation frameworks** for iOS and Android using **Appium**, **Cucumber**, and **JavaScript**, integrating **BDD/TDD** methodologies with **Selenium WebDriver**, HP ALM to enhance test efficiency by **30%**.

- Conducted **500+ functional, regression, and cross-browser tests** across major browsers (**Safari, Firefox, IE, Chrome)**, resolving **95% of logged defects** in **JIRA** and producing comprehensive **QA documentation**.
- Executed **performance testing** with **LoadRunner** and optimized CI/CD workflows using **Maven**, **TestNG**, **Jenkins**, and **Selenium Grid**, reducing test execution time by **40%**.
- Validated **100+ APIs and web services** with **SOAP UI Pro**, **JMeter**, and **XML/XSD** schema validations, ensuring integration accuracy and decreasing defects by **25%**.
- Designed and executed **50+ test plans and scripts**, performing system, **functional**, and **end-to-end testing** with **Excel-based data validation**, improving test coverage by **20%**.
- **Automated testing processes** in **Jenkins pipelines**, resolved **all critical defects**, and prepared **Go-No-Go documents** for **10+ successful releases**.
- Monitored and resolved **30+ support issues** in Fusion Performance Management, validated Swift Payment Methods, and documented QA results, increasing process reliability by **15%**.

EDUCATION

o **Southeast Missouri State University,** *Master's in Technology Management*   **May 10th, 2025**

PROJECTS

Development of Robust Test Automation Framework:
- Built a **test automation framework** using **Selenium WebDriver, Java, POM, TestNG,** and a **custom PageFactory** to optimize **element identification** and enhance test reliability.
- Enabled **dynamic element location** and **parallel test execution**, improving both test speed and maintainability.
- Integrated the framework with the **CI/CD pipeline**, automating the detection of defects and accelerating release cycles.

Development of Cypress/Mocha E2E Tests:
- Developed a comprehensive **Cypress end-to-end test suite** using **Mocha.js**, covering key user flows and UI interactions, validating dynamic content and navigation.
- Implemented the testing framework entirely in **JavaScript** with **Node.js**, leveraging its ecosystem for package management and seamless integration with other JavaScript tools.
- Ensured end-to-end coverage by simulating real user journeys, from page load to task completion, guaranteeing holistic testing and high confidence in the quality.

Release Process Automation:
- Created an automated system within **Jenkins** to enhance the CI/CD pipeline, reducing manual intervention by 90%.
- Introduced automatic notifications for stakeholders and managed deployments for both staging and production environments, including migrations.
- Increased daily deployment frequency by 100% through streamlining the release process, significantly boosting operational efficiency.

Root Cause Analysis (RCA) Report Analyzer:
- Developed an automated method to analyze test failures by examining failure logs, previous records, job names, and associated test case IDs.
- Consolidated data from 61 distinct jobs into a structured Google Sheet for easy tracking and faster defect identification.

Automated Coverage Report Organizer and Analyzer
- Created an automation system that categorizes **RSpec test results** by squad and assigns bugs based on pull request feedback.
- Integrated **AWS S3** storage with **Jenkins** to streamline report handling, increasing the efficiency of test result processing. Developed a Ruby script that further enhanced security and speed, ensuring seamless automation.

Automated CI for PRs
- Introduced an automation feature to conduct quality checks on pull requests, ensuring comprehensive evaluations covering migrations and **Docker image integrity**.
- Provided detailed visibility for managers and tech leads into each PR's quality status, fostering better communication and faster decision-making.

CERTIFICATIONS

o [2024] AWS Certified Developer Associate.
o [2025] Hacker Rank – SQL (Advanced).
o [2025] The Complete Agile and Scrum Project Management Course certified from udemy.
o [2024] Udemy – PostgreSQL (Advanced)

AWARDS & ACHIEVEMENTS

o [2023] Member Badminton Club, Data Science Club, Google Developers Community Club.
o [2024] Best employee in team award at Spoors Technologies Solutions Inc
o [2022] Secured a place in the top 5 in the Hackathon at Spoors Technologies Solutions Inc