Srinath Bhupathi

SDET | QA Automation Engineer

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PROFESSIONAL SUMMARY

Senior QA Automation Engineer (SDET) with 6+ years of experience specializing in **Playwright, Selenium Automation Framework design** for UI and API testing using **TypeScript and JavaScript**. Expert in building **modular, scalable frameworks**, integrating automation into **CI/CD pipelines (Jenkins, GitHub Actions, Azure DevOps)**, and executing tests in **AWS (Lambda, S3, EKS)** environments. Proficient in **API automation (Postman, REST Assured)**, troubleshooting, root-cause analysis, and optimizing test performance. Adept at collaborating with DevOps and development teams in Agile Scrum environments to ensure high-quality, continuous delivery.

CORE SKILLS

- **Automation Frameworks**: Playwright (TypeScript/JavaScript), SpecFlow, Cucumber BDD (Gherkin), Selenium, Cypress, PyTest, TestNG, Junit, Jest
- **Programming**: TypeScript, JavaScript, Python, Java, Node.js, OOP Design
- **Mobile Automation**: Appium (Android/iOS), BrowserStack, Sauce Labs
- **API Testing**: Postman, REST Assured, Swagger, JSON Schema Validation
- **CI/CD & DevOps**: Jenkins, GitHub Actions, Azure DevOps, GitLab CI, Docker, Kubernetes, YAML Pipelines
- **Cloud & AWS Services**: AWS Lambda, S3, EKS, EC2, CloudWatch, SQS for test execution and reporting
- **Performance & Security Testing**: JMeter, k6, OWASP ZAP, JWT Auth
- **Test Management:** Jira, Confluence, TestRail, Xray, Defect Lifecycle Management
- **Methodologies**: Agile Scrum, TDD, ATDD, BDD, SDLC, STLC

PROFESSIONAL EXPERIENCE

SDET Engineer | Methodica Technologies, Troy, MI   **May 2023 – Present**

- Proficient in Selenium and Playwright automation testing for web and API applications, ensuring robust end-to-end validation and high-quality releases.
- Hands-on experience in Playwright with TypeScript/JavaScript for building scalable, modular automation frameworks.
- Skilled in Selenium WebDriver using Python and Java, following the Page Object Model (POM) and BDD (Cucumber) design patterns.
- Strong expertise in Selenium WebDriver with Java, developing robust automation frameworks and regression suites using TestNG and JUnit for scalable UI testing.
- Expertise in end-to-end automation testing across multiple browsers (Chromium, Firefox, WebKit) and platforms.
- Automated mobile test cases using Appium integrated with BrowserStack/Sauce Labs for cross-device execution.
- Proficient in API automation testing using Postman and REST Assured, validating RESTful and GraphQL services.
- Experience integrating automation suites into CI/CD pipelines using Jenkins, GitHub Actions, and Azure DevOps.
- Strong knowledge of Agile methodologies (Scrum, TDD, BDD, ATDD) ensuring test coverage from requirement to release.
- Used Python libraries such as Pandas, NumPy, and Plotly for data cleaning, aggregation, statistical checks, and generating validation reports.
- Hands-on with AWS (Lambda, S3, CloudWatch) for running distributed automation tests and storing reports.
- Strong in test data management, regression testing, and performance testing using JMeter.

- Performed backend and database validation using SQL queries to ensure data consistency across integrated modules.
- Collaborated with developers, QA, and product managers in Agile sprints to deliver defect-free releases.
- Performed end-to-end functional and regression testing across multiple teller release cycles.
- Validated business rules, transaction processing, and system interfaces between Teller front-end and core banking back-end.
- Conducted UAT support sessions and defect triage meetings to ensure production readiness.
- Validated structured data files including CSV, JSON, and AVRO formats to ensure correct ingestion, transformation, and data consistency across modules.
- Worked with automotive communication protocols such as CAN and J1939 during infotainment system validation and ECU behavior analysis.
- Executed automated and manual tests on automotive hardware test benches involving TCUs, ECUs, CANoe setups, and data logging tools.
- Integrated automated test suites into CI/CD pipelines using GitHub Actions and GitLab CI.
- Built performance and security testing baselines using JMeter, OWASP, and JWT authentication.
- Mentored QA engineers established best practices for automation code, and led peer reviews.
- Transformed software release processes through test automation, reducing regression execution time by 40% and enabling faster feature delivery

QA Automation Engineer | ARI, Hyderabad, India   **Sep 2019 – May 2023**

- Automated functional and integration tests for web and API applications using Selenium, WebdriverIO, and Robot Framework.
- Designed and executed performance and load tests with JMeter, analyzing scalability and latency metrics.
- Applied object-oriented programming expertise in developing maintainable automation frameworks implementing Page Object Model design patterns
- Built and utilized RESTful APIs using Python Requests and REST Assured for comprehensive backend validation and integration testing
- Participated in Agile development lifecycle with strong knowledge of SDLC, contributing to sprint deliverables and release planning
- Developed automated test strategies for API testing including functional, performance, contract, and integration testing scenarios
- Applied analytical thinking and problem-solving to identify root causes, apply judgment, and perform multiple concurrent tasks

Graduate Engineer Trainee | ARI, Hyderabad, India   **Apr 2019 – Sep 2019**

- Achieved 95% test coverage through comprehensive automation strategies and robust framework development
- Reduced regression time by 40% by optimizing CI/CD pipeline integration and automation strategies
- Decreased production defects by 25% via thorough testing and validation processes
- Improved software delivery efficiency by transforming manual processes to automated pipeline
- Established quality metrics program providing visibility into defect trends and test effectiveness

KEY ACHIEVEMENTS

- Achieved 95% Automation coverage using Java and Selenium
- Reduced regression time by 40% through optimized Automation strategies
- Decreased production defects by 25% via comprehensive UI Testing and Rest API validation

EDUCATION

Bachelor of Electronics & Communication Engineering
Nalanda Institute of Engineering & Technology, India | 2018

CERTIFICATIONS

- ISTQB Foundation Level (CTFL)

- Selenium with Python

- Postman API Testing