



## AMAR AVILELI

### Sr. SDET | DevOps QA Automation Tester | Performance Tester (JMeter)

*(AWS Certified: Solution architect, SysOps Administrator)*

*(Salesforce: Platform Developer I & II)*

*Oracle Certified Professional (OCP),*

*ISTQB Certified Professional)*

[amar.sdet1@gmail.com](mailto:amar.sdet1@gmail.com) | +1 (201) 661 9925

**SDET** with 13+ years of IT experience, specializing in Java, JavaScript, and Python for diverse applications (Mobile, Web, Cloud/AWS, API, client-server). Proficient in SDLC and STLC, I build robust automation frameworks (Playwright, Selenium, Cypress) and execute comprehensive test strategies, including performance testing with JMeter and monitoring tools (Splunk, Graphana, Datadog, Prometheus). Expertise spans Healthcare, Retail/E-commerce, and Supply Chain, with strong CI/CD and cloud (AWS, Azure, GCP) skills.

#### CAREER OVERVIEW:

- Utilized a combination of **Agile (Scrum, Kanban)** and **Waterfall** methodologies, participating in **daily stand-ups, sprint planning, and retrospectives** to adapt to project needs and ensure timely, customer-focused software delivery, while maintaining transparent communication with stakeholders. Expert in designing and implementing test automation **BDD** and data-driven hybrid using **Selenium, Playwright, and Cypress**, leveraging **Java, TestNG, Cucumber, and Extent/Cucumber Reports**
- Implemented **Behavior-Driven Development (BDD)** frameworks using **Cucumber**, defining **feature files and Gherkin scenarios** to translate user stories into executable acceptance tests.
- Designed and implemented cross-browser and cross-platform automation suites using **Playwright** with **TypeScript/JavaScript**, focusing on robust end-to-end and **API testing**
- Designed and implemented **JMeter** test scripts for various protocols (**HTTP/HTTPS, REST API, SOAP**), utilizing advanced features like **correlation, parameterization**, and scripting to simulate real-world user behavior
- Extensive experience in Performance Testing and Monitoring tools such as **JMeter, Splunk, Datadog, AWS CloudWatch**, etc., analyzed performance metrics like **response time, throughput, error rates**, and identified performance **bottlenecks**.
- Developed and implemented **automated test suites** within **CI/CD pipelines (Jenkins, Azure DevOps)**, validating infrastructure as code, build integrity, and deployment processes using tools like **Playwright, REST Assured, and infrastructure testing frameworks**.
- Used Continuous Delivery / Continuous Integration (**CD/CI**) tools **Docker, Jenkins, and Azure** to deploy this application to **AWS** and used **GIT** for Version Control of code for incremental development and on a day-to-day basis to maintain the code history.
- Integrated **SonarQube** into **Jenkins pipelines** for automated code coverage analysis and pre-filtering, ensuring high code quality and building stability
- Experience in **Azure** deployments and infrastructure provisioning using **Azure DevOps pipelines**, implementing Infrastructure as Code (IaC) with tools like **ARM templates and Terraform**.
- Experienced in both manual and automated API testing, utilizing **Swagger, SoapUI, and Postman** for **SOAP** and **RESTful** web services, and leveraging **REST Assured** for robust automation.
- Experience in automating Hybrid **Mobile Applications** using **Selenium, Appium and Java**.
- Developed and executed comprehensive end-to-end tests using **Cypress**, using **JavaScript**
- Implemented and managed version control workflows using **Git, Stash, and Bitbucket**, ensuring code integrity and facilitating seamless integration with **CI/CD pipelines**.

- Extensively worked in Relational Database Management Systems including **MySQL, SQL Server, and Oracle.**
- Expertise in using various defect-reporting and defect-tracking tools like **JIRA Zephyr, Rally, Bugzilla, and HP ALM.**
- Exhibited strong leadership in managing global teams, specifically by streamlining communication and workflows between offshore and onshore resources.

#### **TOOLS & TECHNICAL SKILLS:**

<b>Web Technologies</b>	HTML, CSS, ES6, AngularJS, XML, XSLT, JSON
<b>Programming/Scripting Languages</b>	Java, Python, Angular, C#, JavaScript, Typescript
<b>UI &amp; Functional Automation Tools/ Frameworks</b>	Protractor, Selenium WebDriver, Appium, Rest-Assured, Frisby, Mocha, Chai, Jest, Jasmine, BDD Cucumber, JUnit, TestNG, Karma, LoadRunner, JMeter, SoapUI, Postman, Swagger, Servlets, Spring Core, JPA, Playwright, Cypress
<b>Reporting and other Frameworks</b>	Extent Reports, Jasmine Reports, Java Mail, Apache POI, itextpdf, Sikuli, AutoIt.
<b>DevOps &amp; CI/CD</b>	SVN, Git, Stash, Jenkins, Teamcity, Docker, AWS Cloud, Sauce Labs, Azure, Terraform, Kubernetes
<b>Databases</b>	MySQL, SQL Server, Oracle, and MongoDB.
<b>Build Tools</b>	Ant, Maven, Gradle
<b>Browsers</b>	Selenium GRID, Internet Explorer, Firefox, Chrome & Safari.
<b>Operating Systems</b>	Windows 10/11, Mac OS, UNIX and Linux, Android.
<b>Test Case Management Tools</b>	ALM QC, JIRA Zephyr, TestRail, XRAY, Rally
<b>Performance Testing and Monitoring tools</b>	JMeter, LoadRunner, BlazeMeter, Locust
<b>Project Management Tool</b>	JIRA, Azure DevOps, Confluence

#### **EDUCATION:**

- Bachelor of Technology in Electronics and Communications Engineering from Jawaharlal Nehru Technological University.

#### **CERTIFICATION & TRAINING:**

- AWS Certified Solutions Architect - Associate
- AWS Certified SysOps Administrator – Associate
- Salesforce Platform Developer I and II

## PROJECTS

**GE Healthcare, Waukesha, WI**  
**Software Development Engineer in Test (SDET)**  
**/Performance Tester (JMeter)**

**Jul 2023 – Till Date**

### **Responsibilities:**

- Followed **Agile (Scrum)** methodology, actively participating in sprint ceremonies and ensuring quality deliverables.
- Collaborated extensively with BAs and developers, applying **Test-Driven Development (TDD)** principles.
- Designed and implemented a **Behavior-Driven Development (BDD)** framework using **Cucumber** for clear specifications.
- Architected a robust automation framework incorporating the **Page Object Model (POM)** for maintainable UI tests.
- Executed the scripts with Firefox, Safari, and Chrome. Worked on **TestNG Annotations**, XPath expressions and **CSS** Identified several web elements using different locators such as **ID, XPATH, CSS** etc. available in **Selenium WebDriver** and **Playwright**.
- Developed a **Data-Driven Testing** approach using **TestNG** and external data sources for comprehensive test coverage.
- Led the migration of **Selenium (Java)** automation to **Playwright** and **Cypress (TypeScript)**, leveraging its advanced features.
- Utilized **Playwright** and **Cypress** with **TypeScript** and **JavaScript** to build and execute end-to-end tests for modern web applications.
- Performed rigorous cross-browser testing with **Selenium Grid** and cloud-based testing platforms.
- Implemented unit and integration tests using **JUnit** framework to ensure code quality and reliability.
- Conducted in-depth **Performance Testing** using **JMeter**, simulating various load scenarios on **AWS, Azure, and GCP**.
- Monitored application performance and identified bottlenecks using **Splunk, Grafana, and Datadog** on **AWS**.
- Executed API testing using **Postman** and **Insomnia**, validating contract compliance and functionality.
- Integrated automation suites into the **CI/CD pipeline** with **Jenkins, Docker, ArgoCD, Ansible, Terraform, Kubernetes** and **GitHub Actions** for continuous feedback.
- Configured **Jenkins** build jobs, incorporating **Maven** for dependency management and **Surefire** for test execution.
- Managed test scripts and collaborated on automation efforts using **Git version** control within **GitHub**.
- Utilized **JIRA** and **TestRail** for comprehensive test case management, linking them to user stories.
- Documented and tracked defects meticulously using **JIRA**, participating in defect triage meetings.
- Wrote and optimized **SQL** queries for thorough backend data validation and integrity checks.
- Employed **XPath** and **CSS** selectors strategically within Selenium and Playwright for element identification.
- Integrated **JIRA Zephyr** for managing test cases within JIRA and generating execution reports.

**Environment:** JavaScript, jQuery, Java, Python, Mockery, Rest Assured, Rest API, Postman, JSON, Visual Studio Code, Selenium WebDriver, TestNG, POM, Maven, JMeter, GitHub, Jenkins, AWS Cloud, Oracle.

**Responsibilities:**

- Worked in the **Agile Kanban** environment with frequently changing requirements and features set.
- Responsible for front-end code testing using TDD & unit testing techniques.
- Automated and executed test cases and reported the defects in **Jira**.
- Involved in implementation of Test Automation Framework build using **Selenium WebDriver** to handle **TestNG** and Maven technologies under Java platform.
- Responsible for implementing **Page Object Model (POM)** using **Selenium WebDriver**, **TestNG** and **Java**.
- Implemented Selenium Web-driver to run Regression Tests on multiple platforms and browsers in parallel.
- Responsible for documenting the Automated Test results using **Rest Assured** for web services.
- Daily used build tools like **Maven** and **Jenkins** to build and regression automated tests into CICD processes and used GIT for source code control.
- Performed the Load testing using **LoadRunner** and **JMeter**.
- Created POC's on E2E UI & API Hybrid framework using **Rest Assured**
- Prepared test cases for Navigational testing, Functionality testing and User interface testing.
- Involved in the Defect Review Meetings, build meetings and release meetings to resolve the outstanding issues.
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- Validate the backend data by writing complex **SQL queries** to perform back end testing for data integrity.

**Environment:** Java Spring, Selenium Web driver, TestNG, JSON, JIRA Zephyr, Jenkins, Maven, JMeter, UNIX, Agile Methodology, MySQL, MongoDB, GitHub, POM, SoapUI, Eclipse, IntelliJ.

**Responsibilities:**

- Led **performance testing lifecycle** from requirements gathering to results analysis, identifying system **bottlenecks** and provided optimization recommendations within Agile environments.
- Executed **load, stress, endurance, and scalability tests** using **JMeter 4.0**, **LoadRunner**, and **Gatling** to validate application efficiency.
- Conducted **root cause analysis** of performance issues using **profiling tools**, focus on **CPU utilization**, **memory usage**, and **network throughput**.
- Developed complex test scenarios that accurately replicate real-world usage patterns, measuring critical **KPIs** and system behavior under various conditions.
- Implemented **containerization** like **Docker** for creating consistent and isolated testing environments across distributed microservices architectures.
- Optimized **database queries** through **garbage collection analysis** and **heap monitoring**, increasing system throughput by identifying memory leaks.
- Created performance test scripts for both **UI** and **API** testing using **JMeter**, **Blazemeter**, and **Postman** to evaluate system response times.
- Collaborated with cross-functional teams to integrate performance testing into **CI/CD pipelines** using **Git**, **Jenkins**, and **JIRA** for seamless workflow automation.

- Utilized **Splunk**, **ELK stack**, and **DataDog** for comprehensive application monitoring and generating detailed performance testing reports with visualized metrics.
- Executed performance tests on **Azure Cloud** and **AWS** environments, ensuring application scalability and reliability across different cloud infrastructures.
- Developed custom **Python** and **Bash** scripts to automate test data generation and performance test result analysis processes.
- Participated in architecture and design reviews for complex solutions, providing quality perspectives and performance considerations during early development stages.
- Utilized **JUnit**, **TestNG**, and **Cucumber** for unit and functional testing integration with performance test scenarios to ensure complete quality coverage.
- Generated comprehensive performance reports including **transaction response times**, **throughput metrics**, and **resource utilization** statistics for stakeholder review.
- Analyzed **garbage collection logs** and memory dumps to identify potential memory leaks and optimize application performance under heavy load conditions.
- Executed cloud-specific performance tests evaluating **auto-scaling capabilities**, **load balancing effectiveness**, and **resource provisioning efficiency** across environments.
- Used **Grafana** dashboards integrated with various data sources to visualize real-time performance metrics and system behavior during test execution.

**Environment:** JMeter, LoadRunner, Blaze meter, Gatling, K6, NeoLoad, Postman, SoapUI, Dynatrace, AppDynamics, Datadog, Splunk, ELK Stack, Grafana, Git, Jenkins, JIRA, Xray, Cucumber, Selenium, Playwright, JUnit, TestNG, Jasmine/Karma, Docker, Azure, AWS, Java, Python, Bash, Spring Boot, Microservices, CI/CD, RushHour.

**Thomson Reuters, Carrollton, TX**  
**Automation Test Engineer/DevOps**

**May 2015 - Jul 2018**

#### **Responsibilities:**

- Review requirements and attend meetings to understand the business functionality.
- Performed Manual Testing of the application, creating test plans, test cases and documentation. Executed the manual test cases for various testing like GUI, Functionality, System, for Web applications.
- Involved in implementation of Test Automation Framework build using **Selenium WebDriver** to handle **TestNG** and Maven technologies under Java platform.
- Responsible for implementing **Page Object Model (POM)** using **Selenium WebDriver**, **TestNG** and **Java**.
- Developed and executed application software testing such as functional, integration, and regression testing to ensure the quality of WSI websites and related systems.
- Performed testing Web services (SOAP) and XML with tool called SOAP UI, for the local WSDL / with URL and created Test cases, run them, do load testing, security testing.
- Reviewed Manual Testing methods and developed and executed automated scripts.
- Developed and Maintained Function Libraries, Object Repositories for the Framework development
- Performed Manual Testing and maintained documentation on different types of Testing viz., **Positive**, **Negative**, **Regression**, **Integration**, **System**, **User-acceptance**, **Performance** and **Black Box**.
- Used Quality Center for reporting/tracking bugs and for document control.
- Developed Custom Reporting with **Ant**, **CSS**, **HTML**.
- Involved in the Defect Review Meetings, build meetings and release meetings to resolve the outstanding issues.

**Environment:** HTML, CSS, JavaScript, jQuery, JSP, Java, Selenium WebDriver, TestNG, Quality Center, Oracle, ALM, SOAP, MS SQL Server, JAVA, XML, Windows 7.

**Responsibilities:**

- Followed the waterfall methodology and analyzed the user requirements, functional specifications and Use Case documents and created the Test Plans, Test cases for Functional testing.
- Coordinated with the business analysts and developers and discussed issues in interpreting the requirements and effectively managed the finalized requirements.
- Demonstrated an understanding of Functional, Technical and UI requirements of the project.
- Developed automated scripts for functional testing using **selenium with java**.
- Optimized automation scripts for Regression testing of the application with various data sources and data types.
- Developed inline view queries and complex **SQL queries** and improved the query performance for the same
- Identify defects in aggregate tables and report data, enter defect in JIRA and coordinate with developers to resolve them based on defect severity and priority.
- Experienced in performance testing using load runner
- Successfully Completed **User Acceptance Testing (UAT)** on each release of the project with the help of end user requirements.
- Ensured content and structure of all testing documents/artifacts is documented and maintained.
- Supported the lead in terms of Review of Test Cases and Business scenarios.
- Attended the weekly Project Meetings and discussed the issues raised according to their priority level.

**Environment:** Selenium, Java, TestNG, Java, Quality Center, SQL, Jira, Windows.

**Responsibilities:**

- Designed and implemented robust CI/CD pipelines using **Jenkins, GitHub Actions, and GitLab CI** to automate performance test execution and result analysis.
- Utilized infrastructure as code with **Terraform** and **Ansible** to provision consistent, scalable environments specifically designed for performance.
- Configured and maintained **Docker** containers and **Kubernetes** clusters to simulate realistic load conditions for distributed system performance evaluation.
- Created comprehensive automation frameworks using **Python (PIP Scripts)**, and **Bash Shell-scripts** to generate test data and analyze performance test results.
- Implemented monitoring solutions with **Grafana, Prometheus, and AppDynamics** to capture real-time performance metrics during test execution phases.
- Integrated **Jenkins Scripted Pipelines** with performance testing tools like **JMeter** and **LoadRunner** to automate regular **performance regression testing**.
- Configured log aggregation systems using **Splunk** and **ELK Stack** to centralize and analyze **performance test logs for comprehensive reporting**.
- Optimized cloud infrastructure across **AWS, Azure, and Google Cloud Platform** to enable cost-effective performance testing at scale.
- Automated database performance testing for **SQL Server, MongoDB, and RDS** to identify query optimization opportunities and bottlenecks.

- Established continuous monitoring practices using **Nagios and QRadar** to identify **performance degradation** trends in production-like environments.
- Configured **ArgoCD** to deploy applications consistently between development, testing, and production environments for accurate performance comparison.
- Implemented **VMware vRealize** orchestration to provision virtualized environments automatically for performance testing of **legacy applications**.
- Developed custom dashboards in **Grafana and Splunk** to visualize performance metrics and provide real-time visibility during test execution.

**Environment:** Jenkins, GitHub Actions, GitLab CI, Terraform, Ansible, Docker, Kubernetes, Python, Go, PowerShell, Grafana, Prometheus, AppDynamics, JMeter, LoadRunner, Splunk, ELK Stack, AWS, Azure, Google Cloud Platform, Git, GitLab, SQL Server, MongoDB, RDS, Nagios, QRadar, ArgoCD, OctopusDeploy, VMware vRealize.