

Purna Sunkara

Senior Software Dev Engineer Test

Phone: +1 (469) 340-2569

E-mail: purnasaic@outlook.com

Professional Summary:

- Experienced in designing and implementing automation frameworks, including Hybrid Frameworks and Data-Driven Framework, for various projects.
- Proficient in all phases of the Software Development Life Cycle (SDLC), Software Testing Life Cycle (STLC), and Defect Life Cycle Management.
- Skilled in Front-end and Back-end Testing (Web Services and Databases) with Test-Driven Development (TDD)/Acceptance Test-Driven Development (ATDD) approaches.
- Successfully designed a framework for data validation from AWS for web services.
- Experience building a micro-service that'll pull the data from AWS Aurora DB and on-prem DB.
- Configured and maintained Jenkins CI/CD pipelines to run automated tests on new builds. Implemented email and team message notifications upon job completion.
- Created a Python test framework for validation between the SQL server and Athena.
- Experience using manual and automated testing tools to troubleshoot systems, integration, user acceptance, Production Validation, and Regression test cycles.
- Experience building frameworks using C#, Java, Python programming language, and Nightwatch.js.
- Experience building K6-based performance testing framework with Datadog integration. Developed custom scripts and analyzed results for optimization.
- Experience using Version Control Tools like GitHub and Continuous Integration tools like Jenkins.
- Experience working with different development environments such as Agile/Scrum & Waterfall.
- Experience with source version control tools such as TFS and GIT.

Technical Skills

Tool Stack	ReadyAPI, Postman, Fiddler, AWS, Docker, Kubernetes, K9S, Datadog, Qase
AWS Stack	Kinesis, S3, EC2, SQS, Lambda, Athena, DynamoDB, Aurora, Cloud Watch
Frameworks	.NET Core, Data-Driven, Hybrid, Unit Testing, Requests
CI/CD	Jenkins, Spinnaker, Datadog
Programming Languages	Java, C#, Groovy, Python, TypeScript, JavaScript
Databases/Database tools	SQL Server, MySQL, Athena, Snowflake
Defect Tracking Tools	TFS, Jira
Version Control Systems	Git, TFS

Educational Details

• Bachelor's Degree in Electronics and Communication Engineering

Jawaharlal Nehru Technological University

Hyderabad, India

• Master's Degree in Electrical Engineering

Northwestern Polytechnic University

California, USA

Professional Experience

Client/Employer: Project44, LLC.
Senior Software Dev Engineer Test

May 2022 – Present

Roles/Responsibilities:

- Developed a Java-based API testing framework utilizing JUnit5, OkHttp3, and assertJ, seamlessly integrated with Docker and Kubernetes to reduce manual efforts, and improved reporting through QASE integration.
- Developed a Python-based automated API testing framework using the Requests library and integrated it with QASE for streamlined testing, reduced manual efforts, and improved test reporting.
- Created and implemented Datadog Synthetics tests using Terraform to monitor the availability and performance of APIs.
- Developed JavaScript-based K6 performance tests integrated with DataDog, collaborating to optimize system performance.
- Implemented contract testing using Java Pactflow and integrated it with the CI/CD pipeline to ensure service compatibility and reliability.
- Designed and developed UI testing framework using Playwright and integrated it with QASE. This framework allows for efficient UI testing and provides detailed test reporting and sends a notification to Slack.
- Designed and developed a API testing framework using Playwright and integrated it with QASE. This framework allows for efficient UI testing and provides detailed test reporting and sends a notification to Slack.
- Collaborated with cross-functional teams to present POC results, demonstrate framework benefits, and provide hands-on documentation to stakeholders.
- Integrated Jenkins with Git and scheduled builds to run automatically during a build release by invoking predefined commands.
- I collaborated with the team of quality and development engineers on an ongoing basis to improve the code's quality and align to cross-systems integrations and release plans.
- Developed a Java project to retrieve data from Snowflake using Snowflake JDBC Driver.
- Identified E2E scenarios and automated them as per functionality and business workflow.
- Develop new automation approaches to increase quality development velocity and decrease testing costs.
- Validated APIs on an ad-hoc basis using Fiddler and Postman tools.
- Involved in adding a QE step for test automation in Spinnaker.
- Involved with product owners and team members in Completing User Acceptance Testing (UAT) on each project release and meeting the end-user requirements.
- Submitted Coverage Status Report of tests performed every week.
- Shared Daily Status Reports with all the team members, Team Leads, and Managers.

Tool Stack:

Python, Java, Requests, K6, Playwright, Snowflake, JIRA, IntelliJ IDEA, Jenkins, Spinnaker, AWS, Docker, Kubernetes, K9S.

Roles/Responsibilities:

- Architected and developed automation frameworks to optimize testing all components under test. Includes kiosk front-end application, APIs, and system integration for full end-to-end test coverage and supporting test automation & CI/CD pipeline.
- Integrated Jenkins with Git and scheduled builds to run automatically during a build release by invoking predefined commands.
- I collaborated with the team of quality and development engineers on an ongoing basis to improve the code's quality and align to cross-systems integrations and release plans.
- I built a web service that will retrieve the data from the on-prem and AWS databases (Aurora, Athena) to validate the data in Jenkins.
- Data validation via AWS Kinesis streams pushes data to the Kinesis stream, triggering a Lambda function. This lambda applies business rules, creates end tickets in S3, and emails a specific team.
- I'm the only one responsible for migrating ReadyAPI test automation to .NET Core, XUnit, HttpClient, and Fluent Assertions.
- Worked with the Developers, Business analysts to understand the requirements and performed unit testing.
- Developed automated tests for continuous regression using HttpClient and reduced manual testing.
- Developed automated tests for the .NET Core application and used AWS Aurora for Validation.
- Configured Docker to run in CI/CD pipeline and monitored the test execution in Jenkins once the code was pushed into CI.
- Virtualized the servers using Docker for the test environments and configured automation using Docker containers.
- Managed API keys in AWS Secrets Manager and used AWS SDK to get the credentials from Secrets Manager.
- Configured Jenkins build jobs for CI of source code from repository and launch of Regression and Smoke Testing and sent automation build status emails to the team.
- Maintained test security groups on AWS and customer monitoring using Amazon Cloud watch.
- Validated Amazon Cloud watch logs on errors from lambda and also automated lambda function alerts.
- I worked on two projects with AWS Athena queues to validate the data using Python and .NET Core libraries in AWS Lambda.
- I have extensively worked on creating allure reports. It added value by integrating allure reports to the current framework.
- Identified E2E scenarios and automated them as per functionality and business workflow.
- Validated APIs on an ad-hoc basis using Fiddler and Postman tools.
- Involved in adding a QE step for test automation in Spinnaker.
- Involved with product owners and team members in Completing User Acceptance Testing (UAT) on each project release and meeting the end-user requirements.
- Submitted Coverage Status Report of tests performed every week.
- Shared Daily Status Reports with all the team members, Team Leads, and Managers.

Tool Stack:

C#, Python, .NET Core, K6, Groovy, SOAPUI/Ready API, SQL Server, MySQL, JIRA, Microsoft Visual Studio, Visual Studio Code, Jenkins, Spinnaker, AWS Athena.

Employer: TalentQ Inc.
Client: Redbox Automated Retail, LLC.
QA Engineer

March 2019 – October 2019

Roles/Responsibilities:

- Migrated ready API test scripts to C# using .NET core open-source framework tooling.
- Used Visual Studio Code to import xUnit, Rest Sharp Library and created a web services automation in the .NET Core framework.
- Worked with the Developers, Business analysts to understand the requirements and performed unit testing.
- Worked on Automating REST APIs using Rest Sharp framework and xUnit Assertions via .NET Core.
- Worked on reading queues in AWS Athena to validate the data by using .NET Core libraries.
- Used Gitlab as a code repository to clone the project from it, make modifications, submit and commit changes to the local repository and then later to the central repository.
- I created a multilayer test framework for testing web services (SOAP, REST) and underlying protocols (HTTP/S, TCP/IP).
- Involved in the Continuous Integration of the automation framework with Jenkins.
- I have integrated the test suites in Jenkins to execute automatically after every successful deployment.
- Reported bugs in JIRA, monitor until they get the fix, and update documents in Confluence.
- Involved in using the Extent Reports and loggers to track the flow of the test cases, time taken for execution, defect tracking, and pass/fail percentages information on the test environment.
- Shared Daily Status Reports with all the team members, Team Leads, and Managers.
- I got involved in analyzing requirements during the requirements analysis phase of the projects.
- I was involved in writing and executing the test cases in JIRA and Involved in Logging Bugs/Defects in JIRA and retesting them.

Tool Stack:

RestSharp, C#, .NET, Groovy, AWS, Amazon S3 Brower, SOAP UI/Ready API, Jenkins, SQL Server, SOAP & REST Services, JIRA, Microsoft Visual Studio, xUnit, NuGet Packages and Jenkins.

Employer: SVK Technologies, Inc.
Client: Redbox Automated Retail, LLC.
Software QA Engineer

October 2018 – February 2019

Roles/Responsibilities:

- Involved in pre-and post-production deployment support end to end.
- Integrated Automation Scripts with xUnit, Used Jenkins integration tools and GIT as a source code management system.
- Involved in building test suites, test cases and test methods for regression and functional testing using Soap UI.
- Involved in REST Service testing using Postman to check the communication between different services and validate them using .NET Framework.
- Expertise in Build and CI/CD tools like Jenkins to utilize them for the Test Automation process.
- Developed automated tests for continuous regression testing and reduced manual testing using Ready API.
- Committed ReadyAPI automation test scripts to TFS and used Jenkins to run automation tests as part of the build process.
- Worked on WSO2 API Management tool in Offers and Promotion project.
- Used JIRA as a project tracking tool/Defect tracking/Test case Management tool.

- Shared Daily Status Reports with all the team members, Team Leads, Managers, and Scrum Masters.
- I got involved in analyzing requirements during the requirements analysis phase of the projects.
- Analyzed bugs and involved in quality assurance reviews with the team to ensure bug reported.
- Involved in writing and executing the test cases in JIRA.
- Involved in Logging Bugs/Defects in JIRA and retesting them.

Tool Stack:

RestSharp, C#, SOAP UI/Ready API, Jenkins, SQL Server, JIRA, Microsoft Visual Studio, .NET Framework, xUnit, Jenkins, SQL.

Employer: R4ITLabs, Inc.

February 2018 – September 2018

Client: Redbox Automated Retail, LLC.

Software QA Engineer

Roles/Responsibilities:

- Worked with the Developers, Business analysts to understand the requirements and performed unit testing.
- Involved in migration of Ready API automation scripts to C# based automation framework using .NET core, xUnit, Http Client libraries.
- Grouped test cases with xUnit Traits with different tags so as to run them based on the need (at the time of Sanity, Smoke, and Regression).
- Maintained the source code in Gitlab.
- Involved in using the Allure Reports and loggers to track the flow of the test cases, the time taken for execution, defect tracking, and pass/fail percentages information on test environment.
- Involved in the Continuous Integration of the automation framework with Jenkins.
- Involved in executing the test automation scripts in the build pipeline.
- Reported bug in JIRA, monitor until getting a fix and updated different Confluence page.
- Involved in writing and executing the test cases in JIRA and Involved in Logging Bugs/Defects in JIRA and retesting them.

Tool Stack:

HttpClient, C#, .NET Core, Groovy, SOAPUI/Ready API, Jenkins, SQL Server, JIRA, Microsoft Visual Studio, Visual Studio Code, Jenkins.

Employer: Raiser Technologies, Inc.

August 2017- January 2018

Client: Redbox Automated Retail, LLC.

Software QA Engineer

Roles/Responsibilities:

- Involved in pre-and post-production deployment support end to end.
- Integrated Automation Scripts with xUnit, Used Jenkins integration tools and Git as a source code management system.
- Expertise in grouping of test suites, test cases and test methods for regression and functional testing using Soap UI.
- Used Postman to validate API's on an ad-hoc basis.
- Expertise in building CI/CD tools like Jenkins to utilize them for Test Automation process.
- Developed automated tests for continuous regression testing and reduced manual testing using Ready API.

- Used TFS as a version control system for manage automation scripts and used Jenkins to run the automation scripts as part of the build process.
- Used Apache POI to drive the test scenarios from flat files.
- Worked on WSO2 API Management tool on a customer promotion project.
- Used TFS as a project tracking tool/Defect tracking/Test case Management tool.
- I got involved in analyzing requirements during the requirements analysis phase of the projects.
- Analyzed bugs and involved in quality assurance reviews with the team to ensure bug reported.
- Involved in writing and executing the test cases in TFS.
- Logging Bugs/Defects in TFS.

Tool Stack:

C#, SOAP UI/Ready API, Jenkins, SQL Server, TFS, Microsoft Visual Studio, .NET Core, xUnit, Jenkins, WSO2 API Manager

**Apps HR Services
QA Engineer**

May 2014 – April 2015

Roles/Responsibilities:

- Performed Backend testing by using SQL queries to validate data integrity of reports.
- Experience in building test suites, test cases, and test methods for regression and functional testing using Soap UI.
- Performed Web SOAP Services testing & REST Services Automation by using Ready API assertion.
- Developed automated tests for continuous regression and reduce manual testing efforts using ReadyAPI.
- Performed database validations in the automation scripts using JDBC connections.
- Used TFS as a version control system for maintenance of automation scripts
- Involved in the agile development process and attended daily scrum meetings. Used to see test for automation testing.
- Performed database validations in the automation scripts.
- Involved in writing and executing the test cases in TFS.

Tool Stack:

Jenkins, SQL Server, TFS, Microsoft Visual Studio, C#, xUnit, .NET Core, Jenkins, Visual Studio.