Meghana Yerramilli (Newark, DE)

**Professional Summary**

**Overall Experience:** Over 9+ years of extensive expertise in Quality Assurance (QA) and Automation Testing, specializing in large-scale applications across multiple domains. I have successfully led QA teams and initiatives to ensure the delivery of high-quality software products. Proven track record in developing and executing comprehensive test strategies for both functional and non-functional testing, ensuring robust software quality through manual and automated testing methodologies. Skilled in implementing and managing automation frameworks, optimizing test coverage, and driving process improvements. Adept at collaborating with cross-functional teams to deliver high-quality software products in Agile environments

# Specializations:

* **UI Automation:** Proficient in Selenium, Cypress, Protractor, Playwright, and TestNG.
* **API Testing:** Experienced with RESTful APIs, Web Services, JSON, Postman, and SoapUI.
* **Performance Testing:** Developed JMeter suites for API testing and performance evaluation.
* **Regression Testing:** Ensured stability of new releases using automated regression suites.
* **CI/CD Automation:** Integrated test suites with **GitLab**, **Jenkins**, **Azure DevOps** for continuous integration and deployment. Ensured efficient test execution pipelines with features like parallel execution using **LambdaTest**.

# Technical Skills:

* **Languages:** Java, JavaScript, TypeScript, and C#.
* **Frameworks:** Page Object Model (POM), RestAssured, Cucumber, SpecFlow, and BDD principles.
* **CI/CD Tools:** Expertise in GitLab, Jenkins, LambdaTest and Azure DevOps for streamlined automation.
* **Databases:** Hands-on experience with Oracle, SQL Server, MongoDB, and MySQL.

**Team Leadership:** 4 years of experience leading cross-functional teams, mentoring junior QA engineers, and championing QA best practices. Guided projects across teams to ensure smooth feature releases and quality assurance alignment.

**Agile SDLC Expertise:** Extensive experience working in Agile-Scrum environments, collaborating with development and product teams.

# Key Achievements:

* Built and optimized automation frameworks for UI testing from scratch.
* Implemented parallel test execution, reducing test cycle times and enhancing efficiency.
* Led cross-team efforts for successful feature releases and quality improvements.

# Education:

* Master’s in Computer Networking from Wichita State University, KS.
* Bachelor’s in technology (Computer Science) from GVP College of Engineering, India.

# Technical Skills:

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| --- | --- |
| **Methodologies** | Waterfall, Agile/Scrum, SDLC, STLC. |
| **Testing Framework** | Selenium, Protractor,SpecFlow,Nunit Framework, TestNG , HP Quality Centre, Selenium (IDE, RC, Web Driver),Cucumber,Gherkin, RestAssured,Protractor,JavaScrpt, PageObject Model,Cypress, Playwright, TypeScript, Java,Selenium, Junit,Maven,LamdaTest, UI  Automation, API Automation, WebServices Automation |
| **Data Base** | Oracle, MongoDB, SQL MySQL, DB2, MS SQL Server |
| **Languages** | TypeScript, JavaScript, C#, Java,SQL |
| **APIs & Services** | RESTful APIs, Microservices, JSON, Protobuf |
| **CI/CD Tools** | GitLab, Jenkins |
| **IDE** | Eclipse, Visual Studio Code,Visual Studio, IntelliJ |
| **Methodologies** | Agile, Scrum, Continuous Integration/Continuous Deployment,  **Behavior-Driven Development (BDD)** |
| **Defect Tools** | JIRA, TestRails,Xray,Azure Devops , HP Quality Center/ALM, Rally,  Bugzilla, |
| **Other Tools** | Kronos, PeopleSoft, Wireshark, Git, GitHub, Jira, Bugzilla, Asana, Excel, Project, Microsoft Test Manager, QTP, TFS, TestRail, Test  Studio, SoapUI,PostMan |

**FrontDoor - Senior QA Engineer Lead (Full Time) Remote Mar 2023 – Dec2024**

* **Led cross-team collaboration for new feature releases**, ensuring end-to-end quality assurance and the reliability of features across development, QA, and other teams, driving seamless delivery and high-quality outcomes.
* **Developed and executed automated UI tests using Selenium WebDriver** with **Java Page Object Model** (POM), enhancing the maintainability and modularity of test scripts, making them scalable for future projects.
* **Enhanced the test automation framework** by increasing reusability and modularity, integrating **Maven** and **TestNG** to streamline build management, facilitate parallel test execution, and improve test efficiency.
* **Defined and implemented comprehensive test strategies** for both **UI** and **API** testing, creating detailed test plans and test cases that ensured thorough coverage of functional and non- functional requirements, addressing both positive and negative test scenarios.
* **Debugged critical production issues** using log analysis tools such as **Splunk**, identifying root causes and determining appropriate fixes. Developed and implemented effective mitigation plans, minimizing downtime and improving overall system reliability.
* **Authored and maintained comprehensive automation architecture documentation** for both **UI and API automation**, establishing best practices and ensuring alignment with QA and development standards for test automation, leveraging **TestRail** for test case management and reporting.
* **Optimized automation test suites** by implementing parallel execution through Lambda, significantly improving efficiency and reducing test execution time, enabling faster feedback loops and more frequent releases.
* **Conducted extensive regression testing using UI automation**, validating the stability and functionality of existing features before new releases, ensuring seamless user experience and minimizing defects.
* **Drove continuous integration/continuous deployment (CI/CD) automation**, integrating automated regression tests with **GitLab** and **Lambda**, resulting in faster deployment cycles, more frequent releases, and real-time reporting in **TestRail**, thereby ensuring quick feedback on software quality.

# General Motors – Senior QA engineer (Contract) Remote Dec 2023 – Mar 2023

* **Leveraged Behavior-Driven Development (BDD) with Cucumber** to design and implement robust test strategies tailored to real-world user flows and feature sets, enabling better collaboration between QA, developers, and stakeholders. This approach enhanced test case readability, facilitated requirement validation, and ensured alignment with business goals.
* **Automated complex user scenarios using Playwright with TypeScript** for both web and mobile platforms, creating reusable components for **UI** and **API** testing. These reusable components streamlined automation efforts, reduced redundancy, and improved test execution efficiency while ensuring consistent coverage across platforms.
* **Extended the automation framework for web testing** by integrating it with **Azure DevOps CI/CD** pipelines, enabling automated **regression** testing workflows. This integration significantly reduced manual intervention, accelerated release cycles, and provided real-time feedback on software quality, improving overall development velocity.
* **Executed API tests using Playwright in BDD Cucumber format**, ensuring comprehensive API test coverage while adhering to **BDD** principles. This ensured that API functionality aligned with business requirements and improved defect detection in early development phases.
* **Participated in technical discussions and debugging sessions** with development teams, actively addressing issues related to UI responsiveness, API stability, and environmental configurations. Collaborated on root cause analysis and implemented actionable solutions, enhancing the reliability and performance of the application.

# Kognitiv– Senior QA Engineer (Full Time) Newark-DE Oct 2017 – Nov 2022

* **Developed and maintained automated tests for Angular applications using Protractor and JavaScript**, ensuring robust end-to-end testing coverage. Created reusable functions and test modules to streamline automation cloud based **SAAS** Application, addressing real-time updates and ensuring seamless user experience.
* **Responsible for maintaining Selenium Web tests UI Automation using C# and the NUnit framework**, employing the Page Object Model (**POM**) design pattern for a legacy .**NET**-based

application. Enhanced test maintainability and reduced code duplication by modularizing test cases, contributing to long-term scalability.

* **Worked with Functionize**, an AI-driven test automation tool leveraging machine learning technology, to design and maintain test scripts for the **Kognitiv** Loyalty Platform's new user interface. This approach reduced script maintenance effort and improved test adaptability to **UI** changes.
* **Built and maintained automated test infrastructure for validating Web Services**, using **SpecFlow** with a Cucumber **BDD** implementation in **Gherkin** syntax for test scenarios and **NUnit** with **C#** for step definitions. This integration ensured comprehensive **API** testing and streamlined collaboration between QA and development teams.
* **Manually tested Web Services and REST APIs** using tools like **SOAPUI** and **Postman**, validating functionality, data integrity, and error handling across various endpoints. Created detailed test cases and executed ad hoc tests to ensure reliability and performance under different conditions.
* **Evaluated product functionality and defined test strategies and test cases**, addressing integration and end-user scenarios. Delivered detailed reports that guided development and QA efforts in identifying and addressing critical issues.
* **Developed and executed automation scripts for REST APIs** using Rest Assured, facilitating efficient and reliable **API** testing. This ensured proper functionality of **API** endpoints and compliance with business requirements.
* **Conducted a proof of concept (POC) using Cypress with JavaScript**, assessing automation feasibility for Angular-based applications. Evaluated tool capabilities and identified best practices for automating complex user interactions within dynamic UIs.
* **Automated performance testing of API calls** across different database instances by creating **JMeter** test suites. This effort identified bottlenecks and improved system responsiveness by validating API performance under varied loads.
* **Contributed to CI/CD pipeline automation**, developing and executing comprehensive test suites using **Azure DevOps**. Monitored pipeline results and provided actionable feedback to enhance build quality and deployment processes.
* **Managed pre-release regression testing**, establishing practices and processes to ensure stability and functionality of applications before production releases. Coordinated efforts with cross-functional teams to address critical issues in a timely manner.
* **Collaborated with development and product support teams**, using distributed version control and ticket-based tracking systems such as **JIRA**. Actively participated in **Scrum**, **Agile**, and **Scrumban** project management frameworks, delivering new product releases to clients every 6–8 weeks. Utilized **Xray** for test case management, enhancing traceability and reporting.

# State Of South Carolina-DJJ - QA Engineer (FullTime) Columbia SC Dec 2016 – Oct 2017

* **Designed and implemented comprehensive testing strategies**, including analysis, regression testing, functional testing, debugging, and maintenance techniques for ASP.NET and C#-based web applications. Ensured consistent quality and reliability by identifying key functionality and integrating automated testing where applicable.
* **Conducted thorough Web API testing using Postman**, validating API endpoints for data integrity, security, and performance. Developed and executed comprehensive test suites to ensure APIs met business and user requirements under various conditions.
* **Demonstrated working knowledge of database design and implementation**, including crafting and executing basic SQL queries and T-SQL statements to retrieve and validate data. Ensured data consistency and accuracy by thoroughly testing database interactions and verifying application functionality against expected outputs.
* **Collaborated closely with stakeholders to understand user requirements and functional specifications**, ensuring test coverage aligned with business objectives. Conducted rigorous QA testing prior to release, preventing defects from reaching production and enhancing user satisfaction.
* **Authored detailed test plans and test cases**, outlining scenarios to validate the functionality of software systems. Executed tests systematically, documenting results, identifying bugs, and working collaboratively with development teams to resolve issues.
* **Tested the Juvenile Justice Management System (JJMS) application**, developing and executing test cases and scripts by meticulously reviewing requirements. Identified gaps and inconsistencies early in the development lifecycle, ensuring compliance with user needs and legal mandates.

# Ennovar - Front End Developer (Graduate research assistant) March 2015- May 2016

* **Designed the UI architecture, interface, and interaction flow of web applications**, ensuring user-centric and intuitive designs that aligned with business goals. Leveraged modern design principles and usability standards to create seamless user experiences in 2016.
* **Provided guidance and assistance to the team on design standards and user interface innovations**, fostering best practices and encouraging the adoption of cutting-edge design methodologies. Collaborated with cross-functional teams to ensure a consistent and cohesive user experience across all applications.
* **Parsed generated XML output into front-end interfaces**, utilizing frameworks like **MeteorJS** to dynamically render data-driven elements. Ensured smooth integration between back-end services and front-end displays to enhance performance and user interactivity.
* **Built responsive web designs and managed page navigation**, transforming design mock-ups into fully functional web pages with **HTML5**, **LESS** (CSS pre-processor), and JavaScript. Integrated APIs and JSON data to dynamically render content according to design specifications.
* **Authored and maintained reusable, modular code**, emphasizing scalability and maintainability. Utilized best practices to optimize performance and streamline development processes for long-term sustainability.
* **Developed and maintained websites such as "Joyfullhome.com," "Hoopsloyal.com," and "Investkit.com,"** focusing on clean, responsive designs that catered to diverse user bases. Worked collaboratively with stakeholders to deliver polished, high-quality web solutions.
* **Gained hands-on database experience**, creating SQL queries and leveraging MongoDB for efficient data retrieval. Ensured robust integration between front-end applications and databases to deliver dynamic, data-driven user experiences.

# TATA Consulting Services - Software Engineer (FullTime) Chennai, India May 2013- Dec 2014

* Tested the Workforce Management project**, focusing on critical components like timekeeping, HR systems, and payroll integrations. Worked extensively with platforms**

**such as** KRONOS Time & Attendance**, Scheduling, and** PeopleSoft HCM, Accounting, and Payroll **to ensure seamless functionality and data integrity.**

# Demonstrated proficiency in Basic SQL queries, retrieving and validating data from databases to support functional and regression testing efforts. Ensured accuracy and consistency of test data by performing in-depth data verification.

* Authored detailed test plans and test cases **based on software design and functional requirements. Conducted thorough reviews of test scenarios to ensure coverage across all aspects of the application, verifying adherence to design specifications and business needs.**
* Performed defect tracking and management**, utilizing tools like** Bugzilla **to identify, log, and track issues to resolution. Collaborated with developers and stakeholders to ensure defects were addressed promptly and efficiently.**
* Executed diverse testing activities**, including** Smoke Testing**,** Integrated System Testing**,** Data Verification**,** UI Testing**, and** User Acceptance Testing (UAT)**. Additionally, conducted** Complex Functional, Integration, and Regression Testing **to maintain the application’s reliability and performance across multiple releases.**
* Utilized tools like HP Quality Center and JIRA**, applying** Agile methodologies **to manage test execution, reporting, and collaboration effectively. Participated in Agile sprint cycles, contributing to continuous improvement and faster delivery of high-quality software.**
* Trained in automation testing**, including hands-on experience with** Selenium**, enhancing testing coverage and efficiency by automating repetitive scenarios.**