**Shiva Karthik**

**PROFILE SUMMARY**

* Results-oriented **Senior QA Automation Engineer** with **11+ years of experience** in **Software Testing** and **Test Automation** across **Finance, Insurance, and E-commerce** industries.
* Extensive experience in **Selenium WebDriver, Cucumber, Core Java, REST Assured, JDBC, and API Testing**.
* Proficient in designing, developing, and implementing **automation frameworks** (Hybrid, Data-Driven, Keyword-Driven) to **enhance test efficiency and coverage**.
* Expertise in **cloud technologies** (AWS, Azure) for **application testing, data migration, and automation**.
* Hands-on experience in **ETL Testing**, validating **data pipelines, migrations, and data transformations** using **Azure Data Factory, Snowflake, and SQL**.
* Strong advocate of **Agile Methodologies**, actively participating in **Scrum meetings, backlog grooming, sprint planning, and retrospectives**.
* Designed and executed **cross-browser and cross-platform testing** strategies using **Selenium Grid and CI/CD pipelines**.
* Successfully integrated **automation frameworks into CI/CD pipelines** (Jenkins, Azure DevOps), reducing manual regression efforts by **40%**.
* Experience in **UI, functional, backend, regression, and performance testing** using **Postman, JMeter, and Playwright**.
* Strong hands-on knowledge in **SQL** and database validation techniques using **MYSQL, MSSQL, AWS RDS, and Snowflake**.
* Developed robust **test strategies, test plans, and test cases** aligned with business objectives and system architecture.
* Expertise in **test management tools** like **JIRA, Azure DevOps and Quality Center** for **defect tracking, test execution, and reporting**.
* Proven ability to **collaborate with cross-functional teams**, including **developers, product owners, and business analysts**, ensuring seamless software releases.
* Spearheaded **data migration projects**, ensuring seamless transfer with **minimal downtime and data accuracy**.
* Seeking a challenging role to leverage expertise in **QA automation, cloud testing, and CI/CD** to drive high-quality software solutions.

**WORK EXPERIENCE**

**Client:** Stateof Minnesota(Education)

**| Sr. QA Engineer / *(Jan 2024 – Feb 2025)***

**Project: Early Childhood Outcome (ECO) Application**

The Early Childhood Outcome (ECO) Application is a tool designed to track and measure the development of young children (ages 0-5) who receive special education services. Schools and educators use this system to record children's progress in important developmental areas.

**Why is this application needed?**

The government and schools need data to improve early education programs and make sure kids get the right support.

**How does it work?**

 Educators enter data about a child's progress at different points in time. The system analyzes and compares the child's development over time.

* Understand and analyze functional requirements, business rules, and system specifications. Collaborate with stakeholders (business analysts, developers, and educators) to clarify requirements and workflows.
* Developed **Test Plan** covering all functional aspects of the ECO application. Identify test scenarios based on user roles (teachers, administrators, state agencies).
* Verify that the system accurately **captures and stores developmental data** (Social, Cognitive, Physical skills).
* Ensure that predefined rules are correctly applied when tracking a child's progress over time. Ensure that data comparisons over different time periods reflect the actual child's progress.
* Verify that the application integrates correctly with **Student Information Systems (SIS)** and other external databases.
* Ensure data synchronization between **ECO Application and external data sources**.
* Test APIs used for importing and exporting student data.
* Ensure that only **authorized users (teachers, administrators, state officials)** can access specific data.
* Validate **role-based access controls (RBAC)** to restrict sensitive information. Perform security checks to prevent **unauthorized data modifications**.
* Perform **regression testing** after bug fixes, enhancements, or new feature releases.
* Conduct exploratory testing to identify potential usability issues and edge cases.
* Log defects in the bug tracking system with clear details Work closely with the development team to **retest and validate bug fixes**.

**Client: R1RCM**

**| Sr. QA Engineer / ETL Tester *(Sep 2022 – Dec 2023)***

**Project:** Data Migration from Azure Synapse to Snowflake

**Project Summary:** This project involved migrating healthcare-related data from Azure Synapse to Snowflake to enhance performance, security, and scalability. The primary focus was on data extraction, transformation, validation, and performance optimization of ETL pipelines. The objective was to ensure seamless migration while maintaining data integrity and compliance with industry standards.

* Led the **planning, execution, and validation** of a data migration project to **transition data from Azure Synapse to Snowflake**.
* Designed **Azure Data Factory (ADF) pipelines** for **data extraction, transformation, and loading (ETL)**.
* Developed and executed **test plans, test cases, and automation scripts** for data validation and integrity checks.
* Implemented **data security, access controls, and compliance** during the migration.
* Validated **Power BI reports and dashboards** to ensure **accurate data representation**.
* Designed and executed **cross-browser automation testing** for web applications.
* Developed **automation frameworks** using **Selenium WebDriver, Cucumber, and Java**.
* Integrated **automation testing into Azure DevOps pipelines** for **continuous delivery and deployment**.
* Conducted performance testing using **JMeter** to validate **data pipeline efficiency**.
* Analyzed, tested, and implemented **new system capabilities** on **AWS Cloud**.

**Client: Fidelity Investments, Dallas-TX | Sr. QA Automation Engineer *(Apr 2022 – Sep 2022)***

**Project:** Web Application Testing & API Automation

**Project Summary:** This project focused on enhancing the reliability and efficiency of Fidelity’s web-based financial applications by implementing robust automation frameworks. The goal was to streamline UI and API testing while integrating automation within CI/CD pipelines to ensure rapid deployment cycles.

* Participated in **Scrum ceremonies** including stand-ups, backlog grooming, sprint planning, and retrospectives.
* Developed and executed **automation scripts for UI and API testing** using **Selenium, Java, and Rest Assured**.
* Designed and maintained **test frameworks** using **Cucumber and Page Object Model (POM)**.
* Conducted **cross-browser testing** using **Selenium Grid**.
* Integrated **Jenkins CI/CD pipelines** to execute **automated test suites**.
* Created and executed **SQL queries** to validate backend data integrity.
* Automated **database integration testing** using **JDBC**.
* Developed **test scripts** to validate **AWS Cloud applications**.
* Used **Postman and JMeter** for **API performance testing**.
* Ensured traceability and bug tracking through **JIRA and Test Manager**.

**Client: Pekin Insurance, IL | QA Automation Engineer *(Nov 2019 – Mar 2022)***

**Project:** Hybrid Framework Development & Cloud Migration Testing

* Designed and developed **Data-Driven and Keyword-Driven automation frameworks** using **Selenium WebDriver and Java**.
* Created and executed **feature files in Gherkin** for **BDD testing**.
* Developed **REST API automation scripts** using **Rest Assured**.
* Integrated automation frameworks with **Hudson for nightly test executions**.
* Performed **cloud migration testing** using **AWS EC2, S3, and Auto Scaling**.
* Conducted **load and performance testing** using **JMeter**.
* Automated **database validations using PL/SQL queries**.
* Identified and reported bugs in **JIRA**, collaborating with **developers for resolution**.
* Executed **manual testing for functional, regression, and system testing**.
* Participated in **UAT testing** and provided insights for system enhancements.

**Client: GE Capital, CT | QA Engineer *(Sep 2016 – Oct 2019)***

**Project: Test Automation for Web and API Testing**

**Project Summary:** This project aimed at enhancing the quality and efficiency of GE Capital’s financial software applications by implementing robust test automation. The project involved developing automation frameworks for UI and API testing, integrating them into CI/CD pipelines, and improving regression testing efficiency.

* Developed **automation scripts using Selenium WebDriver, JUnit, and Java** for functional and regression testing.
* Designed and implemented **data-driven testing** frameworks to validate financial transactions.
* Created and executed **SOAP and REST API test cases** using Postman and Rest Assured.
* Conducted **cross-browser testing** to ensure compatibility across different platforms.
* Integrated automated tests into **Jenkins CI/CD pipelines** to enhance deployment efficiency.
* Developed **SQL queries** for backend data validation and ensured **data integrity**.
* Worked closely with **business analysts and developers** to clarify requirements and improve test coverage.
* Identified, reported, and tracked defects in **JIRA**, ensuring timely resolution.
* Performed **performance testing using JMeter** to measure system scalability.
* Assisted UAT users in verifying business workflows and validating real-world scenarios.

**Client: Abilitec Systems Pvt Ltd, India | Software Test Engineer *(Jun 2013 – Oct 2016)***

**Project:** Functional & Regression Testing of Enterprise Applications

**Project Summary:** This project focused on functional and regression testing of enterprise applications to ensure stability, security, and compliance with industry standards. The goal was to create and execute test cases for various business modules and enhance automation efforts to reduce manual testing overhead.

* Designed and reviewed **test cases based on Business Requirement Documents (BRD)** and Functional Specifications.
* Executed **functional, regression, and integration testing** for web-based enterprise applications.
* Developed **manual and automated test scripts** using Selenium WebDriver and TestNG.
* Conducted **backend testing using SQL queries** to validate database transactions.
* Used **Quality Center and JIRA** for **test management and defect tracking**.
* Participated in **daily stand-up meetings and sprint planning sessions** in an Agile environment.
* Assisted developers in debugging and reproducing defects to ensure timely resolutions.
* Automated **data validation processes** using **JMeter** for performance testing.
* Provided **UAT support** to business users for validating system functionality.
* Conducted **knowledge transfer sessions** to mentor junior QA engineers and improve team efficiency.

**EDUCATION:**

* **Master of Business Administration (MBA),** Osmania University, Hyderabad, India – 2012
* **Bachelor of Computer Science & Engineering,** JNTU, Hyderabad, India – 2009