|  |  |
| --- | --- |
| **Varun Kapaganty**  https://www.linkedin.com/in/varunksv/ |  |

**Professional Summary:**

* Certified Scrum Master and ISTQB Certified Professional with 15+ years of experience in Agile (Scrum) environments.
* Having 9 years of experience in the healthcare sector, specializing in clinical and eCommerce domains.
* Dedicated Business/Systems Analyst and QA Automation/Test Engineer focused on enhancing software quality.
* Experience in managing QA team and coordinating activities between stakeholders.
* Proficient in a wide range of testing methodologies, including Automation testing, Functional testing, Mobile (Native App and Web App) testing, API testing, Database testing, Accessibility testing, and experienced in adhering to GAMP 5, 21 CFR Part 11, and GXP regulations.
* Experienced in implementing test automation framework for web-based/ API services with Selenium, Java & TestNG, Extent Reports.
* Around 1 year of experience in testing data migration, proficiency ETL process.
* Proficient in developing and implementing advanced test methodologies for web-based, cloud-based applications, and microservices.
* Adept in analysing test data, preparing & executing test cases in alignment with business rules.
* In-depth knowledge of Software Development Life Cycle, Test Life Cycle, and Defect/Bug Life Cycle
* Seeking opportunities to contribute expertise in test automation and drive the success of innovative projects.

**Core Competencies:**

|  |  |
| --- | --- |
| Testing and Quality Assurance | **Functional Testing**, Data Validation (SCD and CDC), Smoke & Sanity Testing, Regression Testing, Retesting, End-to-End (E2E), Web Services Testing, API Break Testing, Mobile Device Testing (iOS & Android – Real Devices & Simulators), Accessibility Testing- ADA (Americans with Disabilities Act) with Talkback & Voiceover, Requirement Analysis, Test Plan, Test Scenarios, Test Design & Execution, Defect Reporting. Jira, Agile (Scrum & Kanban), Data Base Testing (Slowly Changing Dimensions.), Computer System Validation/Assurance (CSV/CSA). |
| Test Automation Tools | Selenium WebDriver, Spec Flow, Gherkin, Cucumber, Eclipse IDE, Visual Code. REST/JSON APIs Automation, Postman, Swagger, Insomnia, Sauce Labs |
| Frameworks | Framework development, Page Object Model (POM), Data Driven, Behaviour Driven Development (BDD), TestNG, Extent Reports |
| Programming Languages | Java, Java Script |
| Database & Cloud Computing | MySQL, Postgres DB, Mongo DB, MSSQL, Azure Devops (Boards, Pipeline, Repos, Sprints,) |
| Version Controls and others | Jenkins, Maven, Git, Github, Splunk, SonarQube |
| Domain | Healthcare, Pharma, Identity Management and BFSI |
| FDA Regulations and Validation Deliverables | GxP, CFR Part 11, URS, FRS, RA, VMP, VP, VSR, IQ, OQ, PQ and all related SOP’s |

**Certifications:**

|  |  |  |
| --- | --- | --- |
| **Name** | **Start Date** | **Expiration Date** |
| ISTQB Foundation level from ITB | August, 2009 | No Expiry |
| Certified Tester Foundation Level Agile Tester from ITB | October, 2021 | No Expiry |
| Professional Scrum Master I (PSM-1) from Scrum.Org | May, 2022 | No Expiry |

**Project Details/Roles and Responsibilities:**

|  |  |
| --- | --- |
| **QA lead at Adroitts** | **Sep,2023 – Current** |
| **Project** – AARP Service Inc  **Client -** AARP. | Sep,2023 - Current |
|  |  |

**Roles and Responsibilities:**

* Developed test cases for diverse data migration scenarios, such as data types and formats, considering data transformation rules, and business logic.
* Analysed the quality of data set and schema of the data source (e.g.: data consistency) to meet the large volume and aligning with the data migration requirements.
* Prepared data profiling reports to better understand data composition (e.g.: valid date formats and values).
* Developed test cases to verify the effective functioning of CDC logic, employing SHA256 Hash algorithm, leading to a significant reduction in false updates and enhancements in data load performance.
* Manually validated the integrity of the data using data samplings to certify that integrity is maintained between source and target.
* Unit tested the inhouse python framework/tool extract, transform and loads the data in target systems as per business logic.
* Validated the process failure restart scenarios in case of any issues (e.g.: space issue, connectivity issues).
* Weekly reports and Status meetings with all the stake holders and to discuss about any outstanding issues.
* Ensured data processing statistics are logged properly in operational tables which enabled data governance.
* Validated the python process logs the error details in operation table as well as notifies the stakeholders through email.
* Maintained clear documentation on test cases, test data, test results, and test reports.
* Involved in processing the weekly/Quarterly files and analysed the data.
* Validated the SCD logic (Type1, Type2, Type3) as per the specified rules, is accurately applied by the data transformation process.
* Validated the target DIM and FACT tables aligns with the expected results and ensured the relationship is maintained properly (e.g.: key column relations) in STAR schema dimensional model.
* Prepared the evidence documents by executing test cases to aid the UAT signoff from stakeholders.

|  |  |
| --- | --- |
| **Software Engineer at SmartIMS** | **Feb,2022 – Aug, 2023** |
| **Project** – Study Start Up (FICS, TUDA and TSDA), eTMF, eISF.  **Project Domain -** Life Science Project.  **Client -** BeiGene, Ridgefield Park, NJ. |  |

**Description:** CTMS (Clinical Trial Management System), electronic trial master file (eTMF) and investigator site file (eISF) are used to capture data at the clinical site.

**Roles and Responsibilities**

* Developed a QA team from scratch, streamlined the QA processes, and established QA methodologies in accordance with overall product development and product releases.
* Established a training program for new QA hires to expedite their onboarding, providing them with essential knowledge for the role as swiftly as possible.
* Created and maintained Selenium automation scripts for functional test cases and regression test cases using Selenium WebDriver, Rest Assured, TestNG, Maven, Git, and Jenkins to execute tests periodically.
* Tested individual API endpoints exposed through the gateway using Postman, involving sending various types of requests (GET, POST, PUT, DELETE) to API endpoints and verifying the responses (error handling and status codes), boundary values, and authentication/authorization of endpoints.
* Performed manual/exploratory testing as necessary, especially in areas where automation was challenging or time-consuming.
* Facilitated requirement prioritization and fitment to workstreams in the Change Control Board.
* Collaborated with QA engineers, developers, product managers, Business Analysts, and other stakeholders to ensure the overall quality of the product.
* Worked with the Agile methodology and SCRUM process for product development.
* Helped the team identify and remove roadblocks, which could require cross-team, cross-product collaboration, and/or escalation.
* Collaborated effectively with onsite and offsite teams, fostering seamless communication and project coordination.
* Possessed in-depth knowledge of various AWS services such as EC2, S3, Lambda, RDS, and CloudWatch, among others.
* Verified DMS jobs and data load jobs set up in AWS and confirmed the accuracy of the data loaded into the Postgres database.
* Validated secured APIs using Bearer tokens provided (Authentication and Authorization) by Key cloak.
* Used Jenkins for building, creating snapshots, and running test scripts on servers.
* Used JIRA for project management. Epics, tasks, and subtasks were created to track QA progress.

|  |  |
| --- | --- |
| **IT Test Engineer Sr at Quest Diagnostics** | **Apr,2019 –Feb,2022** |
| **Project** – MyQuest and Quest Direct.  **Project Domain** - eCommerce Application.  **Client -** Quest Diagnostics, Secaucus, NJ**.** |  |

**Description:** Quest Direct is Consumer-initiated testing service that empowers patients to manage and take control of their healthcare by ordering health and wellness lab testing from the convenience of their home and book appointments using appointment manager and payment of the tests. End users can use MyQuest to track their lab results, allergies, immunization, and medicine routine.

**Roles and Responsibilities:**

* Responsible for requirement analysis, review of test plan, Review of test scenarios, test case creations and review, test case execution and review, defects, test estimation, test traceability matrix, status reporting and validation report and provide sign off for all QA activities within the project.
* Manage feature & test schedules throughout the project and track the schedules, formulate & implement test cases and reviews for the projects.
* Published Daily Reports and Burn Down Charts.
* Created a QA training program to ramp up new hires as quickly as possible with all of the necessary knowledge for the position.
* Represents team leadership and provide technical guidance and training to junior test personnel.
* Automated manual test cases using Selenium WebDriver and Java to improve the efficiency of testing by 75%.
* Design the automation scripts in Selenium BDD framework as part of which developed the Cucumber feature files (User Stories)/Gherkin, step definition and page object files Responsible to review Test ready defects and assign them to the respective team member.
* Proficient in API validation using Postman.
* Mobile Application validations using Real Devices (OS - IOS and Android), Sauce Labs and See Test.
* Handson experience in GitHub as version control for code repository and Jenkins for continuous integration.
* Conducted thorough cross-browser validation utilizing Sauce Labs and Selenium scripts.
* Accessibility Testing using NVDA, Accessibility Insights.
* Worked in a highly dynamic Agile environment.

|  |  |
| --- | --- |
| **Software QA engineer 2 at IQVIA** | **Jun,2014 – Apr,2019** |
| **Project –** StarLIMS, QLIMS, Computer System Validation  **Project Domain** – Clinical Trial - LIMS Application  **Client - I**QVIA, Durham, North Carolina |  |

**Description:** QLIMS is the information management system used by Quintiles Laboratories (QLAB) to collect and store lab data for patients enrolled in studies designed to demonstrate the safety and efficacy of new drug compounds. QLIMS is an internally developed application supported and maintained by the Information Technology Department of Quintiles Laboratories based upon Lab Systems Sample Manager.

**Roles and Responsibilities:**

* Reviewed requirements and functional specifications.
* Analysed technical specifications and prepared test plan and test strategy documents.
* Planned and devised cohesive test plans for GxP-regulated projects using CSV practices.
* Created and maintained automated test cases using Selenium and TestNG, executed test suites, reviewed and diagnosed reported bugs, and ensured overall system quality before customer releases.
* Performed product assessment, categorization, test planning, and implementation to ensure compliance with relevant 21 CFR regulations.
* Validated HL7 (Health Level 7) messages between applications.
* Prepared the release plan and handled QA activities during production releases.
* Participated in all phases of the product development and release processes, contributed to the creation of OQ and PQ, generated validation report documents, and facilitated quality process improvements.
* Tracked and monitored timelines, continual improvement, quality, and productivity.
* Facilitated the Scrum framework – sprint planning, backlog grooming, daily scrums, sprint reviews, and sprint retrospectives. Collaborated with product owners, team members, technologists, and other Scrum Masters to define solutions and drive progress. Worked effectively with multiple Scrum teams both onshore and offshore.

|  |  |
| --- | --- |
| **QA Engineer at Thomson Reuters** | **Apr,2010–May,2014** |
| **Project –** iWealth, Thomson One  **Project Domain -** Wealth Management Applications  **Client** - Thomson Reuters, Eagan, Minnesota |  |

**Description**: iWealth Portal is a market leading portal technology, which delivers web-based solutions including market data applications and services, to both professionals and consumers.

BETA Systems is a strategic Wealth Management solution providing securities processing services to brokerage firms, banks, and other financial institutions. This service includes trade processing and maintenance of books and records for virtually all investment products (Equities, Bonds, Mutual Funds, etc.), as well as other services required for the back office to manage and maintain customer and dealer accounts.

**Roles and Responsibilities:**

* Collaborating with stakeholders to understand project requirements, ensuring clarity, and identifying potential issues early in the project lifecycle.
* Responsible for requirement analysis, review of test strategy, developing detailed test plans, defining test objectives, scope, resources, and schedules to guide the testing process effectively.
* Overseeing the creation of detailed test cases and test scripts based on project specifications, user stories, requirements, test executions, defects.
* Collecting and analysing QA metrics, preparing test traceability matrix, status and exit reports, communicating project progress and potential risks to stakeholders.
* Took charge of the routine upkeep of test artifacts within the Configuration Management tool.
* Identified/ provided the regression test suites to the test automation team for automating the test scripts using Java, Selenium and TestNG.
* Executed the test suites in regression test cycles and reduced the test completion cycles by 60%.
* Coordinated with test automation teams to fix the script issues after executing the automation scripts developed in Java, Selenium and TestNG.
* Conducting training sessions, workshops, and knowledge-sharing activities to enhance the skills and expertise of team members.

|  |  |
| --- | --- |
| **Associate QA Engineer at Apere INC (Acquired by Citrix)** | **Aug,2008–Apr,2010** |
| **Project –** IMAG500  Identity Management Application |  |

**Description**: IMAG (Identity Managed Access Gateway) provides complete life cycle management for all the Identities that exist at the applications and networks in the enterprise.

**Roles and Responsibilities:**

* Responsible for requirement analysis, review of test plan, Review of test scenarios, test case creations and review, test case execution and review, defects, Test Estimation, Test Traceability Matrix, Status reporting and validation Report.
* Identified and tracked defects with JIRA and supported developers in resolving problems by completing additional tests.
* Created and enhanced test cases to enhance the effectiveness of manual software testing, employing consistent and comprehensive methodologies for maximum success.
* Documented test outcomes in ALM, providing a comprehensive account of testing procedures, results, and recommendations for the production team.
* Supported Sales/UAT users during their presentations by showcasing client-specific or Proof of Concept (POC) product demonstrations.
* Tested the High Availability and Failover Testing (Master-Master) for the Products with environment Linux, Java, Apache tomcat and Database as MySQL.