VIGNESH BALASUBRAMANIAM

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Professional Summary

- With over 8 years of hands-on industry experience, I specialize in Software & Embedded Testing, encompassing both Manual and Automation methodologies. My expertise lies in crafting meticulous Test Designs, ensuring comprehensive Test Executions, and proficiently managing Defect Reporting & Tracking processes. I bring a robust understanding of the intricacies of testing frameworks and a keen eye for detail to ensure the delivery of high-quality, reliable software solutions

- Expertise in test design techniques like Boundary value analysis, Equivalence Partitioning, Decision table, State transition, Error guessing

- Expertise in Understanding and Analyzing Test Requirements, Tracking changes and maintenance of Test Requirements.

- Well acquainted with all phases of SDLC and STLC

- Experience in GUI, Functional Testing, Regression Testing, Performance Testing and Security Testing

- Experience in working with Embedded products in Simulation environment

- Knowledge in Web GUI and Console based Software Testing

- Developed **Action Based Automation Framework** on Playwright with Cucumber Js and Typescript

- Developed custom library and published to NPM

- Extensively used automation tools like Playwright, Puppeteer, Protractor, Selenium web driver, POSTMAN client and jasmine and cucumber framework

- Good Knowledge on the Medical Quality standards for ISO Standards 13485, 14971, IEC standards 62304 and 21CFR 820

- Good Knowledge on Web Security Protocols like OWASP Top 10 Vulnerability and SANS 25 protocols

- Good Knowledge on OWASP ZAP tool to perform Web Security Testing

- Good Knowledge on J Meter tool to perform Load/Performance Testing

Experience

Automation Expert
HCL Technologies

02/2023 to Current
Bengaluru, India

- Developed **hybrid framework** with Playwright and Cucumber, Typescript and Page Object Model
- Step Definition creation and duplication reduced by implementing custom test executer actions and mapping constants
- Developed *Test Generator*, *cucumber excel reporter* tools to ease our work
- Trained people on the framework usage and guided the team
- Gained work experience in Azure DevOps pipeline and platform
- Spearheaded the test design and strategies customized for web applications, encompassing all essential aspects including functional, usability, compatibility, and performance testing.
- Creating the Test protocols as per requirements/acceptance criteria using Azure Test Plans
- Reviewing the Test protocols and Automation code review by providing the valid inputs for the team
- CI/CD Implementation for automation framework to ensure on time regression testing is done
- Implemented 3D automation solution using Robot.Js for specific approach to the application
- Publishing the reports and handling the client calls
- Delivering the product with planned timeline and achieving duly

Engineer - Quality - Automation Engineer
02/2021 to 02/2023

PREQIN
- Manual & Automation and Lead the QA team for a scrum
- Puppeteer automation framework
- Developed an *AutomationHub* tool for regression run on each release and report generation
- Continues automation on an n-1 basis for regression pack
- Helped other team QAs to solve their code issues and guided them
- Spearheaded the test design and strategies customized for web applications, encompassing all essential aspects including functional, usability, compatibility, and performance testing.
- Creating the Test protocols as per requirements/acceptance criteria using Azure Test Plans
- Reviewing the Test protocols and Automation code review by providing the valid inputs for the team
- Created the performance script for the web app and supported the performance testing activity
- Performed Security testing using OWASP ZAP for the Web App

07/2019 to 02/2021

Associate Project - Senior Automation Test

Engineer Cognizant
- Creating page objects for all webpages
- Creating reusable components for test scripts
- Good exposure to cucumber implementation with a protractor tool
- Supported a different team for Selenium Automation execution on the pipeline for 6 months in parallel, analyzing and fixing them
- Supported a different team on the performance testing using J Meter
- CI/CD Implementation of Protractor Automation framework using Azure DevOps
- Involved on the Sprint Backlog creation, Sprint planning

QA Automation Engineer
03/2017 to 07/2019

HCL Tech - Client: Roche Diagnostics
- Creating Page Objects for all webpages
- Creating General components for test scripts
- Test Script Design using TypeScript with Protractor -Jasmine framework in Visual Studio code
- Defect Tracking Using JIRA
- Preparation of Daily Status Report, WSR
- Dry run for Automation scripts
- Involved in preparation of Carrying out tests & documenting test results as per Quality process following FDA 21 CFR 820 standard
- Interacting with the developers on a regular basis for application updates and enhancements.
- Involved in understanding the requirement specification & perform gap analysis

QA Automation Engineer

HCL Tech - Client: ASP
- As a part of verification process, involved in writing and reviewing test cases for GUI and backend configuration
- Involved in writing and executing the Test Protocols
- Exposure in designing and executing the various types of test cases like GUI, positive and negative test cases.
- Involved in Logging Defects and preparing defect template
- Performed end-to-end Functional and System Level Testing
- Participated in the planning, coordination and presentation of specific testing needs as appropriate to the quality assurance needs of the end user
- Filed detailed bug reports, identified workarounds, and verified fixes
- Responsible for generating Verification reports and involved in stage sign off as a part of PDP process
- Interacting with the developers on a regular basis for application updates and enhancements
- Involved in understanding the requirement specification & perform gap analysis

Core Qualifications

FULL STACK EXPERIENCE
- Developed a tool called *TestGenerator*, which helps to write the test cases faster and easier. This tool is developed to suite Hybrid framework with combination Playwright and Cucumber Js.

Tech Stack used for AutomationHub
- Next Js (React Js) - FE
- Nest Js (React Js) - BE
- Database - MongoDB

SKILLS

Test Management Tools - Jira, Rally, HP ALM, Azure DevOps

Testing Tools - Playwright, Puppeteer, Protractor, Selenium Web Driver

Testing Frameworks - Jasmine, Cucumber - BDD, Chai Assertions

LANGUAGES
- TypeScript , JavaScript, Java and Python (Basics)

Education

Bachelor Degree: **Electrical and Electronics Engineering**   **2015**

Adhiyamaan Engineering college,
Anna University