

Madhan Kumaravelu

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PROFESSIONAL SUMMARY

- With over 9 years of extensive professional experience in the IT domain, I have specialized as a Software Development Engineer in Test, focusing on framework development and automation infrastructure
- Adept at creating and enhancing test automation frameworks that streamline testing processes, reduce manual effort, and improve overall testing efficiency
- Well-versed in crafting modular, scalable, and maintainable frameworks that cater to complex application architectures
- Skilled in container technologies such as Docker and container orchestration platforms like Kubernetes. Able to create and manage containerized test environments, ensuring consistent and reproducible testing across different stages of development
- Proficient in setting up end-to-end CI (Continuous Integration) pipelines for automated testing using tools such as Jenkins, and Github actions. Successfully integrated automated tests into the development lifecycle for rapid feedback and accelerated release cycles
- Collaborative approach to working with cross-functional teams, effectively bridging the gap between development and testing. Strong communication skills enable smooth integration of automated testing practices into agile development processes
- Demonstrated leadership in quality assurance practices, including mentoring junior team members, conducting code reviews, and advocating for best practices in testing and automation. Passionate about fostering a culture of quality within the organization
- Extensive expertise in Selenium WebDriver for automated browser testing, coupled with a deep understanding of cross-browser compatibility challenges
- Proficient in harnessing Selenium Grid and Selenoid to distribute test execution across multiple environments concurrently

EXPERIENCE

TrusTrace

Devops and Lead Quality Engineer

Apr. 2022 – Present

- Orchestrated pipelines for application deployments, Power BI, and ETL processes using Azure DevOps and Jenkins
- Configured and managed AWS & Azure services like EC2, Lambda, S3, EBS, CloudFront, Data factories, Azure devops and Power BI
- Created and managed cloud infrastructures using IaC tools like Terraform and Ansible
- Designed and built Docker containers for various applications, enabling seamless deployment across multiple env
- Implemented monitoring and alerting systems using tools like Prometheus and Grafana

Lead Quality Engineer

Nov. 2021 – Mar. 2022

- Spearheaded an SDET team, ensuring punctual delivery of quality software through effective collaboration with cross-functional teams and agile methodologies
- Architected a scalable and maintainable automation framework using Java and Selenium, enhancing test coverage and expediting regression testing
- Containerized test automation scripts and devised a Jenkins pipeline for parallel test execution
- Conducted API testing employing tools such as Postman and Rest Assured, validating functionality and data integrity
- Collaborated with development units to identify and mitigate performance and scalability concerns, utilizing the K6 tool to simulate user traffic and loads
- Automated critical business workflows and end-to-end scenarios for efficiency
- Mentored and upskilled team members in programming, automation, and testing best practices

Testvagrant Technologies

Software Development Engineer in Test

Sep. 2020 – Nov. 2021

- Developed a web automation framework using Selenium in Java, seamlessly integrating it with the Jenkins CI pipeline

- Constructed and maintained a robust test automation infrastructure via tools like Selenium and Docker, ensuring efficient and scalable test execution
- Executed API testing using Postman for manual checks and Rest-Assured library for automated procedures
- Automated pivotal business workflows and end-to-end scenarios
- Facilitated code reviews and offered insights to enhance testing processes, fostering adherence to quality standards
- Conducted comprehensive compatibility testing across browsers and devices to optimize performance and user experience

Sysvine Technologies

Quality Engineer II

Feb. 2018 – Jun. 2020

- Developed and sustained web automation testing using Selenium in Java, seamlessly integrating it with the Circle CI platform
- Engaged in exploratory testing to identify defects and enhance user experience
- Generated and maintained comprehensive testing documentation, encompassing test plans, cases, and reports to ensure lucid communication of testing processes
- Played a pivotal role in achieving Workday global payroll partner certification
- Involved in functional, usability, compatibility, and regression testing
- Ensured cross-browser and cross-platform compatibility to maintain consistency across diverse environments
- Worked with Jira and Qase to track user stories, bug reporting, test cases maintenance deployment processes
- Performed root cause analysis of production incidents, identifying and addressing underlying causes to prevent future occurrences

Aiway Solutions

Associate Systems Engineer QA

Dec. 2015 – Jan. 2018

- Actively participated in daily stand-ups, sprint planning, and collaborative sessions with developers to streamline communication
- Executed rigorous functional testing, validating alignment with user requirements and specifications
- Produced and managed comprehensive testing documentation, comprising test plans, cases, and reports for transparent communication of testing processes
- Contributed to end-to-end web automation using Selenium and Java, employing a data-driven approach with Apache POI libraries
- Engaged in stand-ups, showcases, and client meetings for clear feature understanding
- Played a pivotal role in functional, regression, and retesting activities to ensure core functionality and feature stability

TalentSprint

Software Quality Assurance Intern

Dec. 2014 – May. 2015

Certification

- Certified International Software Testing Qualification Board (**ISTQB - CTFL**) foundation level
- Certified Kubernetes Application Developer (**CKAD**), CNCF
- Google Cloud Fundamentals: Core Infrastructure, Coursera

SKILLS

Programming languages: Java, and JavaScript/Typescript

Tools and Framework: Selenium, Playwright, WebDriverIO, TestNG, Gradle, Rest assured, Postman, Git, NPM, and Jira

Devops: Docker, Kubernetes, AWS, GCP, Jenkins, Sonatype Nexus, Ansible, Terraform, Azure devops and Github Actions

EDUCATION

Aalim Muhammed Salegh college of Engineering

2010 – 2014