



Senior Software Engineer(QE/TA/DevOps)

Selenium/TestNG

API automation, UI automation

Java/Groovy/Python/ ReactJS

Core Java, Spring boot, React express

Github

<https://github.com/varsharuthu824?tab=repositories>

Open Source

Docker, Kubernetes

Build Tools

Bazel, Maven, Gradle, Sonar, Jenkins, GitHub Actions

Monitoring Tools

Amazon CloudWatch, Logz.io, Grafana

Experience

4+ years

Domain Expertise

Cloud Applications

Practices

TDD, BDD, Agile, Pair programming, Extreme programming

Qualification

B.Tech(E&C)

Email

varsharuthu824@gmail.com

Phone number

9481669277

SUMMARY

A Passionate engineer having 4+ years of experience in the area of software testing, automation and DevOps. Worked on different domains Cloud applications, SAAS products. I am involved in designing and executing test strategy for projects through manual testing and automating them as well. Throughout my career I have played different roles starting from a intern to Senior Software Engineer. My career not only limited to writing/executing testcases, but I was involved in finding/solving many of the critical challenges/road blockers in the project I worked for. At the same time I am not a core DevOps person but I'm responsible for building, managing CI/CD pipelines for about 100+ microservices on Git hub Actions.

My expertise in Quality Assurance/TA

- I worked on a project which was a reporting portal of endpoints like Firewall, ZTNA on Cloud.
 - We had total of 6 microservices developed and I and my team were responsible for testing all those services and to deliver the features with great quality.
 - I am aware of the 12 factors of software development that I kept in mind while designing test strategies for micro services.
 - Our project had features where our microservices had to handle thousands of queries/second successfully and return the response immediately. To test this scenario, I had written scripts on JMeter that did load/stress testing on our microservices.
 - I monitored the response time, max QPS, exceptions on Amazon CloudWatch
 - I have used Logz.io for debugging the issue through status code and messages before raising the bugs.
 - I had created dashboards on Grafana to monitor the health of our micro services.
 - We used a custom, groovy based testing framework for automation.
 - I had written API automation using TestNG, UI automation using Selenium.
 - Considered all the possible status codes, exceptions while automating a MS endpoint.
 - Considered all the possible actions that can be carried out on UI and automated them.
 - We had customized test results logger and monitoring tool.
 - I was able to achieve the ~85% code coverage on most of the features I automated.
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My expertise in DevOps

- I work as a DevOps Engineer where I'm responsible for developing CI pipelines on Git Hub Actions.
 - We are the Pioneers in the organization to use Git Hub Actions for building CI/CD pipelines.
 - I followed the best practices of CI when developing CI/CD pipeline.
 - We built our pipelines on Reusable workflows framework which is a prominent principle and one of the best practices to develop CI/CD.
 - We built a dynamic CI pipeline which has common stages such as build, UT, Coverage, Vulnerability scan, Upload docker images to artifact with place holders. Developers had to just pass their service specific commands in a YAML file and trigger the pipeline. The scripts that we had created used to do the rest of the job from Build to Upload stage.
 - I had worked on configuring the Quality gate for Sonar coverage and Black Duck scan based on the requirements we had from development team.
 - I had written shell scripts, python scripts which we referred in our pipeline for various stages such as running BD scan and Kube Scape Scan
 - We used selfhosted runners to run our CI and we had limited resources, but we were able to serve all the requests of multiple services without delay because of quick our CI jobs were in execution.
 - I'm responsible for solving any of the infra issues, pipeline issues that developers face in their CI jobs.
 - I had created detailed video on the company confluence for configuring CI pipeline, how to solve common issues, how to set the properties files for Sonar to get the coverage which is being referred by many developers.
 - Catering to specific requirements of 100+ microservices using reusable workflows is a challenge which I enjoy every day.
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Projects Undertaken

Project	Next generation security product
Company	Sophos
Duration	Jan 2021 – Till date
Role	Software Engineer (DevOps)

Sophos is a developer and vendor of security software and hardware, providing endpoint, encryption, email, web, mobile and network security as well as Unified Threat Management products. **Sophos** is largely focused on providing security to organizations and businesses.

Project: Sophos manufactures its own security devices which can be installed starting from small offices to larger enterprises. It protects companies from cyber security attacks. Now, the company started to re-write this product to make it more secure and to address many limitations the current appliances have. This will also address the idea of cloud firewalls.

Technology stack: kubernetes, microservice, Core Java, Spring stack, go lang, Amazon cloud - EC2/ECS, S3, RDS and as needed, Docker

Project	Central Reporting
Company	Sophos
Duration	Nov 2018 - Dec 2020
Role	Software Engineer (QE/TA)

Project: With firewall's sending large amounts of data to a central location in the form of logs there should be a way to monitor those, provide reporting and analytical solutions. This specific project focuses on the same where customers can view the activities on the firewall device to a central location and from that they can take action if needed.

Technology stack: Core Java, Spring stack, Amazon cloud - EC2/ECS, S3, RDS and as needed, docker
