

# MURALIDHARAN RAJENDRAN

873-288-1994, murali16394@gmail.com, 1541 Lycéeplace,  
Ottawa, ON – K1G4E2

[LinkedIn](#) [Github](#)

## Software Engineer in Test

Java | K8s | AWS | Azure | Jenkins | Docker | Bash

### SUMMARY

Software Engineer with more than 4 years of relevant experience, seeking opportunity to leverage my skills in your company. I bring in additional experience in AWS cloud, DevOps/QA and have played the role of team lead whenever necessary. Hands-on experience in supporting, automating, and optimizing mission-critical deployments in AWS, leveraging configuration management, CI/CD, and DevOps processes.

### PROFILE SUMMARY

- Experience in **DevOps - Build and Release Engineer** includes automating, building, deploying, managing and releasing of code from one environment to other, tightly maintaining Continuous Integration, Continuous Delivery and Continuous Deployment in multiple environments like (DEV/TEST/STAGE & PROD)
- Experience with **AWS** concepts like EC2, S3, RDS, ECS, Route 53, Cloud Front, CloudWatch, IAM, VPC, Auto Scaling, Load balancer, Cloud Trail and SQS, Dynamo DB, Elastic Cache, CloudFormation
- Extensively worked on Jenkins by installing, configuring and maintaining for the purpose of continuous integration (CI) and for End-to-End automation for all build and deployments
- 2+ years experience in **manual and automation testing** for web and mobile applications
- 3+ years experience in **script development and framework migration** using **Selenium WebDriver**
- 2+ years experience in **CI/CD using Github actions and Jenkins**
- 2+ years experience in **Behavior driven development** of automation framework using **specflow**
- 2+ year experience in **performance and stress testing**
- Excellent verbal and communication skills
- Flexible to adapt and learn new technologies, highly self-motivated, ability to prioritize tasks and meet deadlines and excellent attention to details

### TECHNICAL SKILLS

- Build Tools: - Jenkins
- Languages: - Shell, Bash, Python
- DevOps Tools: - AWS, Terraform, Azure, Docker
- Version Control: - Git, GitHub
- System administration: - Windows, Linux
- Packet Sniffers tools: Wireshark
- Worked in **Agile environment testing for Windows, Linux and Android**
- **Selenium WebDriver (Java), Jenkins, Maven, Rally, Eclipse**
- Knowledge in Multiple cloud platform **AWS, Microsoft Azure, Oracle Cloud Infrastructure, Aviatrix**

## WORK EXPERIENCE

### Veeva Systems

Aug 2021 – Present

#### Software Engineer in Test

SAAS for Life science – Vault

- Involved in designing and deploying applications utilizing all the AWS stack including Route53, Dynamo DB, SNS, SQS, LAMBDA, Code Deploy, focusing on high-availability, fault tolerance and auto-scaling in AWS cloud formation Templates
- Extensively worked on AWS tasks such as migrating applications to Cloud, importing volumes, optimizing EC2, configuring and migrating to RDS, S3 storage, creating security groups, auto-scaling, elastic load balancers (ELBs) and DNS.
- Configured AWS Identity and Access Management (IAM) Groups and Users for improved login authentication. Created AWS RDS Aurora DB cluster and connected to the database through an Amazon RDS Aurora DB Instance using the Amazon RDS Console.
- Worked on AWS Lambda to run the code in response to events, such as changes to data in an Amazon S3 bucket, Amazon DynamoDB table, HTTP requests using AWS API Gateway and invoked the code using API calls made using AWS SDKs.
- Developed JSON templates with ansible script to fully automate the process with Jenkins job.
- Defined AWS Security Groups which acted as virtual firewalls that controlled the traffic allowed to reach one or more AWS EC2 instances
- Developing the Python automated scripting using Boto3 library for AWS Security audit and reporting using AWS Lambda for multiple AWS Accounts
- Implemented a continuous Delivery Pipeline with Docker, Jenkins, and GitHub to build a new Docker container automatically using Jenkins when a new GitHub branches are created
- Troubleshoot Linux OS based issues
- Create deployment instructions for release and troubleshoot release night issues
- Expertise in Creating Kubernetes HA clusters with Multi Zones in single region. Hands on with installation and configuration of Kubernetes, clustering them and managed local deployments in Kubernetes
- Deployed and configured Prometheus to monitor Kubernetes nodes with node-exporter, monitor Kubernetes API and resources with Kube-state-metrics
- Experienced in production-grade Kubernetes that allow enterprises to reliably deploy and run containerized workloads across private and public clouds Managed Kubernetes charts using Helm
- Created the Kubernetes Clusters under Pod networks to group the Docker containers. Used Kubernetes and Docker to maintain the runtime environment for the CI/CD system to build, test and deploy the applications across different environments

### Feenics Inc

Oct 2021 – Present

#### Quality Assurance and development

Access Control as a Service – Keep

#### Roles and Responsibilities:

- Experience in core AWS services (**S3, EC2, ELB, EBS, Route53, VPC, auto scaling** etc.) and deployment service, security practices (**IAM, Cloud watch and Cloud trail**) and AWS serverless API's like **lambda, API gateway and Cognito**
- Experience in branching, tagging, and maintaining the version across the environments working

on **Source Control Management (SCM)** tools like **GIT**

- Integrated Selenium automation regression test suite in **Github actions**.
- Worked to setup **selenium grid environment** inside the **Docker swarm cluster** to facilitate running multiple tests at the same time against different machines running **different browsers and operating systems**
- Experience in creating AWS computing instance Services like EC2 and Amazon Elastic Load Balancing. Configured the SSL certificates for EC2, database and Amazon cli servers.
- Monitoring the AWS Infrastructure Response Time, Application/Service availability, Backend Transaction time, Throughput using CloudWatch and Site24x7
- Implemented automation **BDD framework** from scratch using specflow and selenium web driver with **Nunit** as test runner using **Appium** for mobile test automation
- Integrate automation test results to test-rail

### Highlights:

Take complete responsibility over QA for a team of 5 developers. Responsible for testing API, mobile client, web client, windows client applications and creating test queries using mongoDB aggregate pipelines

### Cognizant Technology Solutions

Jun 2016 - Sep 2018

#### Quality Analyst

Quantum Property - A new and unified product that combined 5 lines of businesses together into a one-stop shop portal.

### Roles and Responsibilities:

- Lead a team of 3 junior QA automation testers in an Agile environment
- Coordinate with product owners and developers from cross functional teams to develop testscenarios and to ensure proper coverage of requirements and test data
- Identify automation candidates, develop, and execute automation scripts using **SeleniumWebDriver, TestNG & Selenium Grid with Page Object Model framework**
- Developed automation Framework for **and REST (POST, PUT and GET) API Testing using Restful API, SoapUI and Postman**
- Perform environment/test data setups for feature, integration, UAT and regression testing
- Monitor and report weekly/monthly metrics, defect status, root cause analysis and risks
- Identify and implement new technologies to the existing suite/framework
- Provide proof of concept of new tools and technologies, to the clients and stakeholders
- Used **Appium** to test Android apps and iOS apps.

### Highlights:

Created Continuous Integration environment using Jenkins for continuous build and version control through GIT on a daily basis triggered by check-ins

## **Programmer Analyst**

Core Initiative - Ensure functionalities of applications are not broken after infrastructure upgrades.

### **Roles and Responsibilities:**

- Develop, document, execute and maintain manual and automation scripts
- Worked on **JMeter** to create Thread Groups and test Web Application for various loads and performance of system on key business scenarios
- Log, track and retest defects and incidents using **HP ALM**
- Develop tools and automation scripts for executing smoke and regression tests
- Conduct sessions on **selenium and appium** to up-skill peers

### **Highlights:**

Optimized 3 resources in less than a year by automating several web applications using Selenium

### **Certifications:**

- Certified Kubernetes Application Developer – Issued by Linux Foundation – Apr 2022
- Certified Kubernetes Administrator – Issued by Linux Foundation – Nov 2021
- AWS Certified Solutions architect – Issued by AWS – June 2020
- AWS Certified developer associate – Issued by AWS – Jan 2021
- Microsoft Azure fundamentals – Issued by Microsoft – Aug 2020

### **Education:**

**Master of Electrical and Computer Engineering - Carleton University, Ottawa, Canada Sep'18 - Jan'20**

10.6/12 GPA

**B.Tech Electronics & Communication Engineering - SRM University, Chennai, India Jun'12-Jun'16**

7.9/10 GPA