Sumanth G

Contact: **+1 (929) 544-5693**

Gmail: [sumanth.gx@gmail.com](mailto:sumanth.gx@gmail.com)

**Devops | Automation | Selenium | Manual Testing |**

**AWS | Quality Assurance Specialist |**



# Summary

* Over all 8 years of experience as a DevOps Engineer and QA Analyst working with applications such as WEB and MOBILE.
* Software testing in the areas of Web based, Client - Server applications using Automation testing techniques. Well versed in Automation testing techniques and methodologies.
* Firm knowledge of different phases of Software Testing and Software Development Life Cycle (SDLC) including Agile Methodology (SCRUM) and Waterfall.
* Hands on experience on Mobile App Testing (iOS, Android and Web OS).
* Automation experience using Selenium IDE/RC/ Web Driver and TestNG frameworks
* Experience in Web primarily based totally checking out inclusive of GUI Testing, Regression Testing, Integration Testing, System Testing, Performance Testing, Stress Testing, Functional Testing and Unit Testing.
* Extensive experience in JIRA, Selenium WebDriver, Maven, TestNG, Log4j, Rest API Testing (Postman and Rest Assured Automation), Soap API Testing (SoapUI Tool), Git, Database Testing using JDBC API and Jenkins.
* Experience in SOAP API manual testing using SOAP UI tool. Experience in POSTMAN tool for API testing for some scenarios.
* Experience in MongoDB installation, patching, troubleshooting, performance, tracking, back - up and recovery in dynamic environments.
* Automated Restful services using Rest Assured using java by following the TDD/BDD framework model.
* Experienced in developing Keyword-Driven, Data Driven, TDD, Behavior driven & Hybrid Framework using Selenium WebDriver and Python
* Extensive experience with tools such as Selenium WebDriver, Junit/TestNG, Load Runner, Quality Center, JMeter, JIRA, Rally, HP UFT/QTP and SOAPUI.
* Experience in using various kinds of Defect Tracking tools like Bugzilla, Clear Quest, Test Director/Quality Center (QC), Microsoft Test Manager (MTM), Team Foundation Server and JIRA.
* Performed Database Testing when needed to ensure Data Integrity in the front end & the back end.
* Experience with Test Automation tools such as Selenium, TestNG, JMeter, Junit, API.
* Proven ability in writing JAVA, Python, JUnit, JavaScript.
* Experience and Knowledge in Microsoft Azure DevOps.
* Proficient in writing Selenium Web Driver automation scripts in Java using Maven, Cucumber, and java Automation Testing for Web Applications.
* Implemented Appium scripts to check IOS and Android platforms.
* Proficient in using Soap UI and Postman API for testing Web Services/Rest service.
* Extensive experience with MySQL, SQL Server, Oracle Database.
* Experience is using Splunk log to provide additional details about the Bug
* Experience in using Team city and Jenkins for CICD.
* Hands-on experience in Microsoft Azure Cloud Services (PaaS & IaaS), Storage, Web Apps, Active Directory, Application Insights, Internet of Things (IoT), Azure Search, Key Vault, Visual Studio Online (VSO) and SQL Azure.
* Strong experience in automating Vulnerability Management patching and CI/CD using Chef and other tools like GitLab, Jenkins, and AWS/OpenStack.
* In depth Knowledge of AWS cloud service like Compute, Network, Storage and Identity & access management.
* Experience in working on version controller tools like GitHub (GIT), Subversion (SVN) and software builds tools like Apache Maven, Apache Ant.
* Extensively worked on CI/CD pipeline for code deployment by engaging different tools (Git, Jenkins) in the process right from developer code check-in to Production deployment.

# Academic Qualification

**Malla Reddy Institute of Technology** — **JNTU Hyderabad (Aug 2012 – June 2016**)

# TECHNICAL SKILLS

|  |  |
| --- | --- |
| **Cloud Environments** | AWS, Microsoft Azure, CI/CD |
| **QA Automation Tools** | Selenium Web Driver, TestNG, JUnit, Cucumber, BDD, POM, Appium, ALM, ANT, SDLC, STLC |
| **AWS Services** | EC2, ELB, Cloud Formation, S3, Glue, SQS, EBS, Auto Scaling, AWS Lambda, Cloud Watch. |
| **Programming Languages** | Java/J2EE |
| **Methodologies** | Agile (Scrum), Waterfall Model |
| **Scripting** | Python |
| **Version Control Tools** | GIT, GIT Hub |
| **CI Tools** | Jenkins |
| **Build Tools** | ANT, MAVEN |
| **Operating Systems** | Unix/Linux (Red Hat 5/6, CentOS), Solaris 9/10, Ubuntu 14, Windows, Mac,  Debian |
| **Network Protocols** | SOAP, HTTP/HTTPS, DNS |
| **Databases** | Oracle, MS SQL Server, MySQL, Dynamo DB, NoSQL |
| **Project Communication Tools** | MS-Office Tools, MS Outlook, Excel Sheets |
| **Bug Tracking Tools** | JIRA, Bug Life Cycle, Bugzilla, QC (Quality Center), Azure DevOps |
| **Other Tools** | JMeter, Post Man API, Salesforce, Cypress |

# Certifications

* **Certified AWS Solutions Architect Associate - Amazon Web Services**

**Validation Number: R10FL5YBHBE4165D**

**Validate At:** <https://aws.amazon.com/verification>

# COURSES

* Selenium WebDriver with Java -Basics to Advanced+ Frameworks" - Udemy by Rahul Shetty
* ISTQB Certified Tester Foundation Level (CTFL)" - Udemy by Rex Black
* Automation Testing Masterclass with Appium - Best Practices" - Udemy by Rahul Shetty
* Software Testing Fundamentals - Coursera by University of Maryland, College Park

# PROFESSIONAL EXPERIENCE

**Title: Sr. DevOps Engineer June 2023 – Current**

**Client: Sketchers, Texas   
Responsibilities:**

* Leaded Kubernetes charts using Helm. Created reproducible builds of the Kubernetes applications, Kubernetes manifest files and releases of Helm packages.
* Front-end web development using HTML/CSS, JQuery, Bootstrap as well as back-end development using Golang and SQL.
* Defined AWS Lambda functions for making changes to Amazon S3 buckets and updating Amazon Dynamo DB table.
* Used Docker in Environment variables, Configuration files, Option types and Strings & integers.
* Written Programs in Spark using Scala and Python for Data quality check.
* Managed large datasets using Panda data frames and PostgreSQL.
* Designed and developed data management system using PostgreSQL.
* Developed server-side application to interact with database using Spring Boot and Hibernate
* Experienced in building a Command line tool to interact with RESTful API using in Golang.
* Used Rest Controller in spring framework to create RESTful Web services and JSON objects for communication.
* Extracted data from the databases (Oracle and SQL Server, DB2, FLAT FILES) using Informatica to load it into a single data warehouse repository.
* Developed REST APIs using Scala, Play framework and Akka.
* Used Scala Test for writing test cases and coordinated with QA team on end to end testing.
* Developed REST APIs using Scala and Play framework to retrieve processed data from Cassandra database.
* Involved in converting Hive/SQL queries into Spark transformations using Spark RDD, Scala and Python.
* Migrated an existing on-premises application to AWS. Used AWS services like EC2 and S3 for small data sets processing and storage, Experienced in Maintaining the Hadoop cluster on AWS EMR.
* Developed backend modules using Laravel.
* Write documentation for system administration and cloud administration audiences as well as REST API consumers at docs.openstack.org.
* Automate Datadog Dashboards with the stack through Terraform Scripts.
* Hands on experience in implementing containerization platform using Docker and Kubernetes.
* Develop applications that use MongoDB database, and pymongo.

**Environment: AWS, Azure, Selenium Web Driver, TestNG, JUnit, Cucumber, CICD, Jenkins, AWS, Docker, Kubernetes, Terraform, Ansible, GitHub, Datadog, SonarQube, Artifactory**

**Title: DevOps Engineer Nov 2021 - June 2023**

**Client: Citi Bank, London, UK**   
**Responsibilities:**

* Design and develop CI/CD build process and pipelines using Jenkins.
* Maven packaging and version upgrade to resolver jar vulnerabilities according to maven repository and FedRAMP requirements.
* Configuration, Permission, Tools, Nodes, Clusters, Audit related issues using shell script, Python scripts, Docker, and Kubernetes according to FedRAMP certification.
* Implementing logging, Auditability, security, and monitoring using Prometheus and Grafana.
* Reviewing Developers code and bugfixes for production related issues.
* Developed new framework using Python scripts to Automate CLI unit tests.
* Followed agile methodology with daily scrum meetings.
* Deployed project using Git & bitbucket version control system and bug defect tracking tool JIRA.
* Responsible for Implementation, design, architecture, and support of cloud-based server and service solutions.
* Managed multiple AWS accounts with multiple VPC’s for both production and non-prod where primary objectives included automation, build out, integration and cost control.
* Responsible for using AWS Console and AWS CLI for deploying and operating AWS services specifically VPC, EC2, S3, EBS, IAM, ELB, Cloud Formation and Cloud Watch.
* Installing, configuring, and troubleshooting on various Amazon images like Amazon Linux AMI, Ubuntu 12.x, 13.x, 14.x, 15.x by using AWS EC2 instance service.
* Templated AWS infrastructure as a code using Terraform to build staging and production environments.
* Created and managed multiple Instances of Apache Tomcat and deployed several test applications in those instances in QA environment.
* Configured a VPC and provisioned EC2 instances, EBS in different availability zones.
* Implemented and maintained the monitoring and alerting of production and corporate servers/storage using AWS Cloud Watch.
* Setup and build AWS infrastructure various resources, VPC EC2, S3, IAM, EBS, Security Group, Auto Scaling, and RDS in CloudFormation JSON templates.
* Creating Cloud Watch alerts for instance and using them in Auto Scaling launch configurations.
* Analyze the fitment of using AWS inherent fault tolerant building blocks in application architecture.
* Backing up the instances by taking snapshots of the required servers regularly.
* Setting up and administering the DNS system in AWS using Route53.
* Responsible for ensuring Continuous Delivery/Continuous Integration across all environments from UAT/TEST to Pre-Production and Production using Jenkins.
* Responsible for performing tasks like Branching, Tagging, and Release Activities on Version Control Tools: SVN, GIT and migrated SVN into GIT.
* Created images and stored them in the Docker containers and uploaded to the Docker hub.
* Developed procedures to unify, streamline and automate application development and deployment procedures with Linux container technology using Docker.
* Used ANT and MAVEN as build tools on Java, PHP projects for the development of build artifacts on the source code.
* Proficient with container systems like docker and container orchestration like EC2 container Service, Kubernetes, worked with Terraform.
* Installation and setting up Kubernetes cluster on AWS manually from scratch.
* Developed scripts using BASH files for Automation of activities and builds.
* Using Jenkin AWS code deploy plugin to deploy to AWS.

**Environment: SQL, CICD, Jenkins, AWS, EC2, UAT/TEST, S3, IAM, Docker, Kubernetes, Terraform, Ansible, GitHub, SonarQube, Artifactory**

**Title: DevOps Engineer Jan 2019 – Oct 2021**

**Client: Home Depot   
Responsibilities:**

* Design and develop CI/CD build process and pipelines using Jenkins.
* Manage source control repository in GIT– controlling and monitoring Source code & create tags for builds.
* Creation of new version-controlled branches, merging branches, resolving merge conflicts in Git.
* Participated in the release cycle of the product which involves environments like Development, UAT and Production.
* Create continuous integration/deployment by integrating and improving client infrastructure and building pipelines.
* Configuring Jenkins with GIT and scheduled jobs using Poll SCM option.
* Created and setup automated nightly build environment for Java projects using Maven and Jenkins.
* Created and maintained documentation of build and release process and application configuration to comply with audit requirements and industry best practices.
* Worked with Development Team Leads and testing team to establish a build schedule, execute software builds, and troubleshoot build failures, if any.
* Designed and implemented automation deployment using Jenkins to promote major releases, monthly releases, and patches to preproduction environment.
* Building the source code using Maven and integrate same on Jenkins.
* Responsible for weekly and daily work checks and backups.
* Perform code merges and product integration builds.
* Manage merges between project branches and streams and advise developers regarding best practices.
* Tracking artifacts build and deployment information on JFrog Artifactory.
* Worked on containerization tool Docker to generate docker images for RC builds and push those images to docker Registry.
* Deployment of application into different environments using Ansible Playbooks.
* Perform code merges and product integration builds.
* Launching Amazon EC2 Cloud Instances using Amazon Web Services (Linux/ Ubuntu) and configuring launched instances with respect to specific applications.
* Implemented IAC (Infrastructure as a code) using cloud formation template for managing infrastructure easy, reliable, and rapid.
* Written and implemented Templates for AWS infrastructure as a code using cloud formation templates to build test, staging and production environments.
* Designed AWS Cloud Formation templates to create custom sized VPC, subnets, NAT to ensure successful deployment of Web applications and database templates.
* Configured Elastic Load Balancers (ELB) with EC2 Auto Scaling groups.
* AWS EC2 and Cloud watch services. CI/CD pipeline management through Jenkins. Automation of manual tasks using Shell scripting.
* Created docker swarm cluster with AWS EC2 autoscaling instances for achieving high availability.
* Used Kubernetes for cluster management that runs Docker containerized applications in a cluster of EC2 instances in Linux Environment.
* Implemented Kubernetes to deploy scale, load balance, scale and manage Docker containers with multiple names spaced versions.
* Created Clusters using Kubernetes and worked on creating many pods, replication controllers, services, deployments, labels, health checks and ingress by writing YAML files.
* Scheduled, deployed, and managed container replicas onto a node cluster using Kubernetes.
* Experienced in working in Data centers with 24X7 Production and On-Call Environments

**Environment: YAML, EC2, GIT, Terraform, Oracle, AWS, XML, JSON, MySQL, CI/CD, Kafka, TDR, Cloud watch, Lambda, MongoDB, AWS**

**Title: Automation Engineer Dec 2017 – Dec 2018**

**Client: Samsung   
Responsibilities:**

* Worked in a dynamic agile scrum environment and worked side by side with developers’ teams both onshore and offshore.
* Developed, executed and maintained test automation scripts using Selenium WebDriver.
* Designed behavior driven framework for selenium automation using WebDriver, Java and Cucumber.
* Used Jenkins as a continuous integration tool to schedule and run the automated test scripts.
* Perform Functional testing, Smoke testing and Regression testing and actively participated in daily scrum meetings and involved in bi-weekly Sprint releases.
* Performed various testing activities - functional testing and cross-browser compatibility testing.
* Updated test plan and documented defects in defect tracking JIRA.
* Designed and develop automated test scripts to increase testing efficiency and reliability.
* Reviewed and analyzed business requirements and technical specifications to come up with Testing Scope and Level of Efforts (LOE).
* Performed Data Driven testing using Selenium WebDriver and TestNG functions which reads data from property and XML files and other external sources.
* Participated in all phases of Software Development Life Cycle (SDLC) and Software Testing Life Cycle (STLC).
* Performed System, Integration, Smoke, Sanity, Functional, End to End, Positive and Negative testing and monitored the behavior of the applications during different phases of testing using testing methodologies.
* Developed and maintained automated test scripts in Java, Selenium and Cucumber Framework.
* Worked closely with business team, designers and software developers to understand application functionality and navigational workflow.
* Performed parameterization of the automated test scripts in Selenium to check how the application performs against multiple sets of data.
* Performed Backend Testing, database table manipulations of relational database systems by writing complex SQL queries.
* Automated the Single page application in Cypress tool with framework and java script.

**Environment: SQL, SoapUI, Postman, Quality Center (QC), End-to-End Testing, Cypress, JavaScript, Selenium, Cucumber, Jira**

**Title: Junior Test Engineer Jan 2016 – Nov 2017**

**Client: Infodat**  
**Responsibilities:**

* Worked closely with development, design and testing teams to determine the best approach for testing of each project module.
* Scheduling Test executions using CICD tools like Jenkins (DevOps).
* Documented entire test plan, including test strategies and test cases in Quality Center.
* Performed testing on mobile applications (Native and Web) on iOS platforms (iPhone, iPad), Android
* Platforms (Phones and Tablets).
* Used Selenium WebDriver and Java Programming to create test framework within DevOps environment
* Used Android SDK tools such as ADB Logcat and DDMS for identifying software defects in android phones.
* Tested Compatibility of the website on Mobile browsers on android and iOS Mobile platforms.
* Tested mobile native apps on different mobile platforms such as Android and iOS to track new feature
* performances and bug fixes to ensure the stability of new features.
* Tested the responsiveness for the mobile apps in various devices.
* Performed web service testing for Rest API using Postman to validate business logic before integrating the
* API with front end.
* Worked with project management group to meet strict timelines and coordinated with business to identify the testing needs.
* Used the Defect Tracking System in Quality Center to Report, Update and Analyze Defects during the entire Software Testing Process.
* Submitted weekly status updates and reports showing the status of Software Testing.
* Performed API testing, Web Based Application testing, Mobile Testing, (Native and Hybrid Apps) Back end

**Environment: Quality Center (QC), iOS, Android Tablets, ADB, Logcat, DDMS, Android Mobile Browsers, iOS Mobile Browsers, Postman, Java, CI/CD**