

SANGEETHA D

QA engineer /Test Analyst

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Objective

Seasoned professional carrying 6.9+ years of experience in the field of software testing of web application. My objective is to work in a challenging environment demanding all my skills and efforts to explore and adapt myself in different fields and realize my potential where I get the opportunity for continuous learning.

Professional Summary

- 6.9+ years of experience as a software test engineer in manual testing of Web & Android applications.
- 3+ year of experience as an automation Test engineer in the field of Software Automation.
- Strong Knowledge on **SDLC** and **STLC**, **Defect life cycle concepts** with **Agile - Scrum**, **TDD** methodology.
- Defect management, Requirement analysis, Test plan creation, Test case development, bug hunting, validation, Test results analysis and Reporting.
- Cross- browser, Exploratory, Functional, UI, Acceptance, Localization, Domain** Testing.
- Proficient in **PLC** programming (Ladder Logic, Structured Text, and Function Block Diagram) and **SCADA**, **HMI** design for efficient control system operations.
- Experienced in system integration, configuring control components (PLC, VFD, sensors), and troubleshooting to ensure optimal performance.
- Skilled in implementing safety standards, optimizing control loops, and configuring industrial communication protocols for seamless automation.

Work Experience

Automation -Manual Test Engineer
Present)

Cisco (ACL Digital) (Jan/2024–

Project 4: DNA SPACES – IIOT Based Cloud Application

Tools & Technologies: AWS, Git & GitHub, Postman, Mongo DB, Linux, Android, iMac, JIRA, Python, Selenium, GIT – GitHub, PLC, HMI interface

Key Responsibilities:

- Analyzing migration requirements, scope, objectives, dependencies, & key components involved.
- Validating, and verifying applications on **AWS EC2 instances and ECS using SSH and manual deployments**.
- Collaborating with DevOps to test and troubleshoot CI/CD pipelines in Jenkins for deployments.
- Deploying and Ensuring quality of **microservices** deployed to AWS ECS
- Validating for **Kubernetes- based deployments in AWS EKS**, ensuring pod health & uptime.
- Monitoring and validating automated application rollouts using **ArgoCD for GitOps-based** deployments.
- Integrating QA checks into Jenkins pipelines for automated **regression** during deployments.
- Executing manual & automated tests in staging environments on **EC2/ECS/EKS for production readiness**.
- Debugging failed deployments and analyzing logs from **CloudWatch** and **ArgoCD** dashboards.
- Developing manual test cases, test reports, and contributing to test design documentation.
- Reporting defects and collaborating with development teams for timely resolution.
- Conducting regression testing to ensure existing functionalities work post-migration.
- Validating data accuracy between source and target databases (e.g., MongoDB) & **API testing** with **Postman**.

Project 3: Cloud Desk

Accenture (June 2019 – Dec 2023)

Environment: Windows, Android, iMac, JIRA, Python, Selenium, GIT – GitHub, AWS, **PLC, SCADA, HMI interface**

Key Responsibilities:

- Developing test cases automation, test reports and Involved in Test Design documentation.
- Collaborating with stakeholders to understand project requirements and define test strategies.
- **PLC Programming:** Develop and optimize PLC programs using Ladder Logic, Structured Text, and Function Block Diagram for control applications.
- Design and implement PLC input/output (I/O) mapping, ensuring proper data flow & signal integrity
- **SCADA/HMI Design:** Design and configure SCADA user friendly screens and HMI interfaces for systems meet specifications.
- **Control System Configuration:** Select and configure control components (PLC, VFD, sensors) for optimal system performance and safety.
- **Communication Protocols:** Configure and troubleshoot industrial communication protocols (Modbus, Profibus, seamless operator control and system monitoring.
- **System Testing:** Execute integration, loop-checking, and I/O verification tests to ensure control Ethernet/IP) for device integration.
- **System Integration:** Integrate PLC, DCS, SCADA, and field devices into a unified control system for automated operation.
- **Documentation:** Prepare detailed control system documentation, including wiring diagrams, test plans, and programming documentation.
- Developing test plans, test scenarios, and test cases based on requirements.
- Maintaining the test scripts, framework and debug the issue on case-to-case basis.
- Responsible for **System - UI, Functional, Integration, Regression, browser compatibility, smoke, sanity test validation.**
- Generate test summary reports and provide regular updates on testing progress to stakeholders.
- Develop & Maintain **Automation Scripts** for various applications focusing on **Functional, regression (Python, Selenium)**

Key Achievements:

- Develop **generic methods** for frequent and commonly used features using **frameworks**.
- Handpicked the functional and integration test cases, converted into Automation **test** using selenium.
- Reviewing and executing automated **system, integration, and regression** test scripts on every build.
- Analyzed feature impacts, performed design reviews & defect analysis.
- Implemented the model - reduced release cycle from 2 months to weekly.
- Delivered several product features with high quality and on time.

Network and IT support Engineer

Accenture (June 2018– May 2019)

Project 2: Network and IT.

Environment: Android, iMac, Linux, Oracle, MS office suite, Hardware.

Key Responsibilities:

- Installing and configuring computer systems.
- Diagnosing and solving hardware/software faults.
- Logging customer/employee queries and analyzing call logs to spot trends and underlying issues.
- Provide technical support for clients experiencing hardware, software, and networking issues.
- Maintaining the computer networks and system of the organization.

Manual Tester (Intern)

Schneider Electric (Nov 2017 – Apr 2018)

Projects 1: Connected Coolers

Environment: Web application, Android, Jira, MS office suite.

Key Responsibilities:

- Developing & executing Manual test cases, test reports for web application.
 - Analyzed feature impacts, performed design reviews & defect analysis.
 - Generated and maintained test reports.
 - Replicate the customer issues and verify the fix.
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Skills Summary

Programming: Python, Selenium, Basic Knowledge of HTML, CSS, C, PLC Programming, SCADA, HMI interfaces, Micro Services.

OS Platforms: Windows, Android, iMac, Linux

- Experience with Jenkins, GitLab CI/CD, and GitHub.
- Hands-on experience with **Docker** for containerization and **Kubernetes**.
- Proficient with **AWS services** like **EC2, ECS, EKS, S3, LB, Cloudwatch**.
- Proficient in scripting - **Python**).
- Experience with **test automation tools** (e.g., Selenium, Postman, PyTest).
- Knowledge of Agile/Scrum development processes.

Tools & Technologies:

- Automation – **Python, Selenium** – POM and Customized Frameworks.
- Backend - API & Database Tools – **Postman, MongoDB**
- IDE's - Pycharm, Eclipse.
- **PLC programming, SCADA, HMI interfaces, Microservices**
- Cloud Technologies – **AWS** – EC2, ECS, EKS, ECR, S3, IAM, CloudFront, CloudWatch, Basic knowledge Docker.
- Virtualization Technologies –VMware, Hyper-V
- Project Planning/bug tracking tools - Jira, CDETS, Internal bug tracking tools and Atlassian Tools

Domain Experience:

- Web Applications, Android Application
 - Cloud Technologies – IIOT Based Applications
 - Industrial instrumentation Lab (Products: VFDs, HMI, PLC, & SCADA and Gateways etc.,)
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Engineering Process & Best Practices

- Agile Methodology – **Scrum, TDD, and BDD** -Test strategy, test automation, test architecture.
 - Root cause analysis, defect prevention and continuous process improvement.
 - Requirements/business analysis, problem analysis & Impact analyses.
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Education

B.E – Instrumentation Technology and Engineering

Dr. Ambedkar Institute of Technology - Bangalore.

Distinction with first class CGPA (8.01/10) - 72.66%

(2013 – 2017)

Soft Skills

- ✓ Good Communication | Time Management | Adaptability | Transparency | Leadership and Teamwork
 - ✓ **Languages:** English, Kannada, Tamil, Telugu
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I hereby declare that the above- mentioned particulars are true and correct to the best of my knowledge and belief.

Place: Bangalore

Sangeetha D