DEEPAVARSHINI V

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PROFESSIONAL SUMMARY

QA Test Engineer with 1.7 years of experience in software testing a d validation, specializing in functional, regression, and integration testing. Experienced in designing test scenarios, executing test cases, and collaborating with cross-functional terms to ensure product quality. Have knowledge in Python and basic Java programming with hand on experience in various testing tools and framework.

TECHNICAL SKILLS

Software Testing & Quality Assurance

- Testing Types: Functional Testing, Regression Testing, Integration Testing, Database Testing, Installation Testing, Compatibility Testing
- Test Management: Test case design, Bug tracking, Defect lifecycle management
- Tools: JIRA, Bug tracking systems

Software Technologies & Programming

- Languages: Python, Basic Core Java (Android development), SQL
- Web Technologies: HTML, CSS, JavaScript
- Frameworks: TestNG, Selenium WebDriver, Py-test
- CI/CD: Jenkins

Version Control & Project Management

- Version Control: Git, SVN, Helix
- Methodologies: Agile, Scrum (Certified)

PROFESSIONAL EXPERIENCE

Graduate Engineer (QA & Automation)   Chennai, Tamil Nadu

Trane Technology   July 2023 – February 2025

- Designed and reviewed comprehensive test scenarios and test cases for HVAC systems based on requirements and technical specifications, ensuring proper validation of both hardware and software components.
- Executed multiple testing types including functional, regression, integration, and compatibility testing for embedded applications, validating system behavior across various configurations.
- Identified, recorded, and tracked bugs throughout the defect lifecycle using structured management processes, collaborating with development teams to verify fixes before release.
- Collaborated with cross-functional product teams to analyses requirements and understand integration points, ensuring complete test coverage aligned with product objectives.
- Developed and maintained automation scripts using Python and open-source tools, creating reusable test components that improved testing efficiency while maintaining comprehensive coverage.

EDUCATION

Bachelor of Engineering in Computer Science

Kongunadu College of Engineering and Technology | Trichy, Tamil Nadu

July 2019 - April 2023 | **CGPA:** 8.97

PROJECTS

UIDD Change Process – GET Project
- Implement a flask-based web application that reduced document comparison time by 70%, automatically identifying added and deleted lines with HTML diff visualization.
- Integrated JSON-based script mapping that enhanced test coverage by 45% by accurately identifying impacted automation scripts through keyword matching.
- Utilized SVN commands and multi-threading to fetch and compare file revisions, decreasing analysis time by 60% and generating comprehensive Excel reports.

LED Automation framework - POC
- Created a Python script that minimized manual testing time by 65% by automating the process of capturing and interpreting signals from HID devices.
- Built a verification mechanism that boosted defect detection by 40% by automatically comparing collected signal status with expected values.
- LED automation efforts for embedded system testing projects, reduce manual test execution time by 50% through efficient framework design.

ACHIEVEMENTS & AWARDS
- Received recognition for successfully automating the UIDD change process, improving efficiency by 50% and ensuring timely project delivery while managing multiple responsibilities.
- Led a bug triage initiative that reduced average defect turnaround time by 40%, improving pre-release product stability.
- Mentored new team members in testing best practices and defect lifecycle, speeding up their onboarding by 50%.

Scan Me