Kalbe Hassan

Senior Software Engineer

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Profile summary

A results-oriented QA Engineer with over 3 years of expertise in software testing, automation, and quality assurance across intricate distributed and storage environments. Proficient in Python automation (Selenium, Pytest), Linux/Unix troubleshooting, and network protocol validation, with extensive hands-on experience in NFS testing, TCP/IP protocols, and network configuration validation. At Capgemini, I have spearheaded manual and automation testing for large-scale projects, crafting and executing functional, regression, SIT, and UAT test cases. Additionally, I designed and implemented Python-based automation integrated with Jenkins CI/CD pipelines. Acknowledged as the Star-of-the-Month (Top 1% Analysts at Capgemini) and awarded for academic excellence. Eagerly pursuing a PG Diploma in Data Science.

Skills: ✅ Software Testing & QA Functional Testing | Regression Testing | System Integration Testing (SIT) | User Acceptance Testing (UAT) | API Testing | Storage Domain Testing (NAS) | Mainframe & Distributed Systems Testing | Network Protocol Validation (TCP/IP NFS SMB), ✅ Database System & Log Analysis SQL Querying | Database Testing | Unix/Linux Log Monitoring | Mainframe Logs Analysis | Automated System Health Checks | Network Logs & Packet Capture Analysis | Debugging in Linux/Windows Environments, ✅ Machine Learning & AI Integration Supervised Learning | Neural Networks | Model Evaluation | PyTorch | AI-Powered Log Analysis | Anomaly Detection for QA | ML-Augmented Test Strategies, ✅ Test Automation & Tools Selenium | UFT | VBA Macros | Python Automation (Pytest Custom Frameworks) | Jenkins | Git | JIRA | HP-ALM | QTest | Jacoco | Shell Scripting, ✅ Networking & Infrastructure Testing NFS Testing | TCP/IP Protocol Testing | SMB Protocol Testing | Network Configuration Validation | Transaction Security | Linux Environment Stability | Batch Job Validation | Clustered & Distributed Systems Testi, ✅ CI/CD & Defect Management CI/CD Pipeline Integration | Jenkins Automation | Test Case Management | Defect Reporting & Tracking | Agile Methodologies | Version Control with Git, ✅ Programming & Scripting Python | SQL | Unix/Linux Shell Scripting | VBA Macros | Requests (API Testing) | Flask | NumPy | Pandas | Regex | Automation Utilities

Work experience

Senior Software Engineer — Capgemini   Sep 2021 - Present

- Orchestrated QA efforts for large-scale enterprise-grade projects, contributing to CI/CD pipeline integration and network storage validations.
- Led regression suites for distributed and mainframe systems, ensuring robust and secure software delivery.
- Recognized as Star-of-the-Month (Top 1% Analysts at Capgemini) for outstanding contributions to QA initiatives.
- Received multiple academic excellence awards, demonstrating commitment to delivering high-quality outcomes.
- Pursuing a PG Diploma in Data Science & Machine Learning to enhance expertise in AI-powered automation, predictive testing strategies, and intelligent log analysis.
- Skilled in functional, regression, SIT, and UAT testing, excelling in Linux/Unix debugging and test automation within Agile and DevOps environments.
- Proficient in Selenium, Pytest, Python scripting, SQL, Jenkins, Git, and Linux/Unix, with strong working knowledge of NFS, SMB, and TCP/IP protocols.
- Adept at designing and executing test strategies to ensure scalable software delivery across distributed file systems and data center technologies.
- Passionate about continuous improvement and innovation, open to collaborating on challenging QA automation initiatives.

Projects

Tedra-QA   517 Days

- Strengthened transaction security and stability of Linux-based, distributed environments by conducting comprehensive end-to-end validations on clustered and mainframe-integrated systems, including storage and network modules.
- Proactively conducted rigorous testing to maintain high system reliability and data integrity in critical banking and financial

services applications.
- Designed and implemented detailed functional, regression, and UAT test cases for enterprise-scale projects such as Project Rogue (RBC), leveraging data-driven testing techniques to enhance test coverage and execution efficiency.
- Developed validations targeting file systems (NFS), storage protocols, and network configurations to ensure robust system performance under varied workloads.
- Automated batch job processing, UI validations, and Linux-based test scenarios using Python, shell scripting, and VBA Macros, resulting in a 35% reduction in manual testing efforts.

COSM-QE	883 Days

- Developed comprehensive functional, regression, system integration (SIT), and user acceptance (UAT) test cases for banking and credit card systems, emphasizing network stability, TCP/IP communication, and data-driven testing to ensure regulatory compliance and system robustness.
- Validated critical workflows across distributed and storage-integrated environments to ensure regulatory compliance and system robustness.
- Automated batch processes, UI interactions, and network-layer validations using Selenium, UFT, Python scripting, and VBA Macros, reducing manual effort by 40% and significantly enhancing test coverage and accuracy.
- Accelerated execution cycles and improved reliability and consistency in large-scale enterprise releases through these automations.
- Developed and maintained advanced Python-driven test suites integrated with Jenkins CI/CD pipelines, including detailed validations for NFS-mounted file systems, IP configurations, and overall network stability.

Education

B.Tech/B.E. | Information Technology   2021
Dr. APJ Abdul Kalam Techincal University.
Grade - 7.6/10

12th   2017
Bihar, English
Marks - 65-69.9%

10th   2015
CBSE, English
Marks - 95-99.9%

Additional information

Languages: English, Hindi