Rohan Paul Potnuru

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Summary

A detail-oriented QA Engineer with 2+ years of experience in manual and automation testing, including UI and API test automation (Selenium, Postman). Experience conducting functional, performance, and stability testing in complex configurations such as in simulation and test bench environments. Experienced in the development and implementation of test plans, test scripts and test data sets to provide sufficient coverage and quality. Experienced in cross-collaboration with functional and domain teams in delivering high quality software to meet business objectives.

Education:

Master of Science in Computer Science   08/2023 - 05/2025
University of North Texas – Denton, TX

- Thesis: "Optimizing game learning for Scalable Educational VR Simulations"
- Relevant Coursework: Big Data Analytics, Distributed Systems, Database Systems, Machine Learning

Bachelor of Technology in Computer Science Engineering   07/2019 - 05/2023
Gitam – Visakhapatnam, Andhra Pradesh, India

- Final Project: AI-Driven Predictive Maintenance System for Industrial IoT Devices
- Relevant Coursework: Data Structures, Operating Systems, Software Engineering

Research Publications:

1. The Implications of Technology Usage in the Treatment of Behavior Disorders in Children – IGI Global
2. Innovative Helio-STELLA Spectrometer Kit for STEM Education – NASA, SITE Conference
3. MarsCity: A Chatbot-Supported Virtual Reality Strategy Game for Scaffolding Design Thinking in STEM Education – EdMedia

Academic Projects:

Selenium Automation Framework for Web Applications:
Designed and developed an end to end automation testing framework in Selenium WebDriver with Java, TestNG and Maven.
Automated critical test cases of UI workflows and API integrations, better coverage, and less manual regression testing time.
Integrated the framework with Jenkins CI/CD pipelines to carry out continuous testing and reporting.

Automated Regression Testing Framework:
 Created a Selenium + TestNG framework with Jenkins CI/CD pipeline.
Cut manual regression work by 40 percent..

API Automation Project
Created SOAPUI and Postman test suites to test REST/SOAP web services.
Automated API calls with assertions of functional correctness and performance.

Mobile App Testing (Academic Project)
Performed manual and automated testing on a cross-platform student application.
Conducted functional, UI and exploratory testing and created bugs in JIRA.

Technical Skills

Testing Tools: Selenium WebDriver, SOAPUI, Postman, JUnit, TestNG, JMeter
Programming/Scripting: Java, Python, Bash
Test Management Tools: JIRA, TestRail, ALM
CI/CD & Automation: Jenkins, GitHub Actions, Maven
Databases: MySQL, PostgreSQL
Other: Agile/Scrum methodology, API testing, Mobile testing (Appium basics)

Professional Experience

Research Assistant | University of North Texas   **09/2023 – 05/2025**

Performed automated testing and manual testing of research-based software prototypes, UI and API testing with Selenium and SOAPUI. Designed and implemented test plans, test scripts, and data-driven test cases of experimental software on a simulated environment. Conducted functional and performance testing to ensure that the system was stable on a variety of platforms. Worked with faculty and graduate researchers to ensure proper data collection and reporting by identifying and documenting software defects and resolving them. Automated regression tests, cutting time of test cycles by 30 percent and enhancing test coverage.

JM Baxi Group | Software Engineering Intern   **05/2022 – 11/2022**

Worked on RESTful APIs and backend services using Django and made sure that they will be able to handle production loads. Developed streaming and batch data ingestion pipelines in Python and SQL. Added cloud-native capabilities to AWS (Lambda, EC2, ECS) to support real-time analytics and application scalability. Engaged in agile development lifecycle, pair programming and code reviews, which increased team productivity and product quality.

Certifications

Postman API Tester Certification

Selenium WebDriver with Java (Udemy)