Dharmendiran E

Automation Engineer

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PROFILE

Experienced and detail-oriented Automation Engineer with 3 years of proven expertise in building scalable automation solutions for web, mobile, and API testing. Proficient in Python, Selenium, Robot Framework, and Appium, with strong command of BDD practices using Gherkin and Cucumber. Adept at integrating automation into CI/CD pipelines using Jenkins, and skilled in API testing with Postman and SQL for backend validation. Hands-on experience in AWS Boto3 automation across services like Lambda, S3, and Redshift. Strong exposure to Agile Scrum methodologies, utilizing tools such as JIRA, Zephyr, and Confluence for efficient collaboration and documentation. Innovator behind a GenAI-driven BDD Test Scenario Generator leveraging Amazon Bedrock and Confluence, accelerating test creation and improving alignment with business requirements.

PROFESSIONAL EXPERIENCE

Automation Engineer - Cigna HealthCare,   07/2022 – present | Chennai, India
Tata Consultancy Services

- Developed and maintained automation test scripts using Python, Selenium, and Robot Framework.
- Automated Android application testing using Appium to ensure smooth mobile app performance.
- Designed and implemented BDD test cases using Gherkin and Cucumber for better collaboration and clarity.
- Developed and integrated test automation scripts into Jenkins CI/CD pipelines for continuous testing and deployment.
- Conducted API testing using Postman, validating request-response structures, status codes, and performance.
- Wrote and optimized SQL queries for database validation as part of end-to-end testing.
- Automated AWS services using Boto3, including Lambda, S3, and Redshift, for cloud-based test automation.
- Worked in Agile environments following Scrum methodologies, and used JIRA, Zephyr, and Confluence for test management, reporting, and documentation.
- Developed a GenAI-powered BDD Test Scenario Generator that integrates Confluence design documents with Amazon Bedrock Knowledge Bases, leveraging foundation models to auto-generate Gherkin-style test scenarios for improved test coverage and efficiency.

CORE SKILLS

Programming & Scripting:
Python, Robot Framework, Gherkin (BDD), Cucumber, Selenium, Appium (Android)

API & Database Testing:
API Testing with Postman, RESTful services, SQL (Database validation and query optimization)

Version Control & Collaboration:
Git, GitHub, Confluence, JIRA, Zephyr

Test Automation Tools:
Selenium WebDriver, Robot Framework, Appium, Jenkins (CI/CD), Postman

Cloud & DevOps:
AWS Boto3 Automation (Lambda, S3, Redshift), Jenkins CI/CD Pipeline

Methodologies:
Agile, Scrum, BDD (Behavior Driven Development), Continuous Testing

CERTIFICATES

• Microsoft Certified: Azure Data Scientist Associate 🔗

• What is Data Science 🔗

• Tools for Data Science 🔗

AWARDS

Star of the Month, *Tata Consultancy Services (TCS)*
Recognized for outstanding performance and contribution to test automation and delivery excellence

Best Automation Initiative Award, *Tata Consultancy Services (TCS)*
Awarded for developing a GenAI-powered BDD Test Scenario Generator, significantly improving test coverage and reducing manual effort.

EDUCATION

Madras Institute of Technology,   06/2018 – 07/2022 | Chennai, India
B.E - Automobile Engineering

DECLARATION

I hereby declare that all the information furnished above is accurate to the best of my knowledge and belief. I take full responsibility for the correctness of the information provided.

Dharmendiran E