

Piyush Patil

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Summary

Accomplished SDET with 4+ years of experience specializing in the design and development of scalable, Python-based test automation frameworks. Proven expertise in API, Web, and Performance testing using Pytest, Selenium, and Locust. Skilled in integrating robust testing suites into CI/CD pipelines (GitHub Actions, Jenkins concepts) to ensure software quality and accelerate release cycles. A collaborative team player with a strong grasp of Agile methodologies, SDLC, and STLC.

Skills

Technical: Python, Pytest, Selenium, Playwright, Locust (Performance Testing), API Testing (Postman, Newman), SQL, Git, GitHub Actions, Jenkins (concepts), JIRA, New Relic, Bash, JavaScript

Other: Test Methodologies (Agile, STLC, Bug Life Cycle), Test Strategy & Planning, Black Box Testing, API & Performance Testing, Test Management & Reporting, CI/CD & DevOps Practices, Requirement Analysis

Experience

Associate Consultant/Senior SDET, Capgemini

Feb 2023 – Jan 2024

Enterprise Application [Restaurant Retail Info Management] - Greenfield Project

- Architected a scalable Web UI automation framework from the ground up using Python, Selenium, and Pytest, achieving 95% regression test coverage and reducing manual testing efforts by 70%.
- Developed and maintained a comprehensive REST API test suite using Postman and Newman, fully integrated into the GitHub Actions CI/CD pipeline for automated validation on every code merge.
- Enhanced CI/CD pipeline reliability by implementing automated test report generation, artifact publishing, and MS Teams failure notifications, providing immediate quality feedback to the development team.
- Led performance testing initiatives using Locust with Python, simulating user loads from distributed AWS nodes to identify and resolve critical performance bottlenecks, improving API response times by 20%.
- Utilized New Relic for application performance monitoring, analyzing system metrics to provide actionable insights on infrastructure stability and response times to stakeholders.
- Collaborated closely with developers and product managers in an Agile environment to define test strategies, review requirements, and ensure comprehensive test coverage for new features.

SDET, Capgemini

Aug 2021 – Jan 2023

Enterprise Application [Restaurant File Management]

- Authored detailed test plans and test strategies for high-impact features, adhering to STLC best practices within a fast-paced Agile workflow.
- Managed the end-to-end bug life cycle using JIRA, creating detailed defect reports and quality metrics dashboards that informed release readiness decisions.
- Improved automation script efficiency by 30% by refactoring the codebase to implement reusable page objects, generic locators, and shared utility functions.
- Mentored junior engineers on test automation fundamentals and best practices, conducting peer code reviews for Python automation scripts to ensure high code quality.
- Played a key role in executing end-to-end validation for a critical migration from a legacy system to a modern microservices architecture.

SDET Trainee, Capgemini

Aug 2021 – Jan 2022

- Completed intensive training in Python, Selenium, and BDD principles with Cucumber, applying knowledge to live client projects.
- Contributed to project success through active participation in test planning, test case design, documentation, and execution.

Education

SKN Sinhagad Institute of Technology and Science (Pune)

Pune, IN

Bachelors in Engineering in Mechanical Engineering

Aug 2016 – Sept 2020

CGPA - 8.33

Achievements

Certifications: PSM I - Scrum.org, Selenium Webdriver with PYTHON from Scratch + Frameworks

Awards: Certificate of Appreciation