

# Piyush Patil

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## Summary

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Accomplished SDET with 4+ years of experience specializing in building and maintaining scalable automation frameworks for web and API testing. Proficient in modern testing tools including Playwright, Selenium, and Postman, with a strong foundation in Python and adaptability to JavaScript/TypeScript environments. Proven expertise in integrating automated tests into CI/CD pipelines (GitHub Actions, Jenkins) and executing performance tests in AWS cloud environments. Committed to enhancing software quality and accelerating release cycles through robust automation strategies.

## Skills

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**Technical:** JavaScript/TypeScript, Python, Playwright, Selenium (adaptable to Cypress), Pytest, API Testing (Postman, Newman), Performance Testing (Locust), CI/CD (Jenkins, GitHub Actions), AWS, SQL, Git, JIRA, New Relic

**Other:** Test Automation Framework Design, API Test Strategy, Performance & Load Testing, Agile Methodologies, Defect Management & Tracking, Test Planning & Execution, Requirement Analysis

## Experience

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### Associate Consultant/Senior SDET, Capgemini

Feb 2023 – Jan 2024

Enterprise Application [Restaurant Retail Info Management]- Greenfield Project

- Designed and implemented a comprehensive API test automation suite using Postman and Newman, reducing manual regression testing effort by over 80%.
- Integrated automated tests into CI/CD pipelines using GitHub Actions (with principles directly transferable to Jenkins), enabling automated validation on every code merge and deployment.
- Engineered a robust UI test automation framework from scratch using Playwright and Python, achieving 95% coverage for critical user paths and improving test execution speed by 40% compared to previous Selenium frameworks.
- Developed and executed distributed load tests using Locust on AWS, simulating over 10,000 concurrent users to identify and resolve critical performance bottlenecks before release.
- Enhanced release reliability by implementing automated MS Teams failure alerts, test artifact publishing, and an API smoke-test-based deployment rollback mechanism.
- Monitored application performance and infrastructure metrics using New Relic, providing actionable insights to development teams that led to a 15% improvement in API response times.

### SDET, Capgemini

Aug 2021 – Jan 2023

Enterprise Application [Restaurant File Management]

- Played a key role in bug identification and lifecycle management, creating detailed execution and defect dashboards in JIRA for major releases.
- Drove a 30% improvement in automation script efficiency by refactoring the Selenium framework with reusable page objects, generic locators, and utility functions.
- Mentored junior engineers on product features, test automation best practices, and conducted rigorous code reviews for automation and load testing scripts.
- Designed and documented comprehensive test strategies and test cases for new features within an Agile sprint-based workflow, ensuring alignment with development and business requirements.

### SDET Trainee, Capgemini

Aug 2021 – Jan 2022

- Completed intensive training in Python, Selenium, Cucumber, and Agile practices for functional and automation testing.
- Contributed to client project in test planning, case design, documentation, and execution, quickly becoming a productive member of the QA team.

## Education

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### SKN Sinhagad Institute of Technology and Science (Pune)

Pune, IN

Bachelors in Engineering in Mechanical Engineering

Aug 2016 – Sept 2020

CGPA - 8.33

## Achievements

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

**Awards:** Certificate of Appreciation - Capgemini