

Vivek Kumar Arya

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CAREER OBJECTIVE

Final-year MCA student with hands-on experience in test automation, API testing, and quality assurance. Seeking QA Automation / SDET roles to leverage expertise in Playwright, Selenium, Python, and pytest to build reliable test frameworks, ensure software quality, and contribute to high-performing engineering teams.

EDUCATION

MIT World Peace University

Master of Computer Applications

Pune, India

2024 – Present

Tula's Institute

Bachelor of Computer Applications

Dehradun, India

2020 – 2023

TECHNICAL SKILLS

Testing & Automation: Playwright, Selenium, pytest, Page Object Model, Test Case Design, Manual Testing, Regression Testing, E2E Testing, API Testing

Programming Languages: Python (OOP, asyncio, multithreading), JavaScript, SQL

API Testing: REST APIs, Postman, pytest, HTTP protocols, JSON validation, Response Testing

Backend Development: FastAPI, Flask, REST API design, asyncio, error handling

Databases: MySQL, SQLite, SQL queries, data validation

DevOps & Tools: Git/GitHub, GitHub Actions, CI/CD pipelines, Docker, Linux, VS Code

PROJECTS

QA Automation Case Study | *Python, Playwright, pytest, Page Object Model* | [GitHub](#)

- Analyzed and fixed flaky test patterns in e-commerce automation, significantly improving test stability using explicit waits, improved selectors, and test data isolation
- Designed test framework using Page Object Model pattern with fixtures and modular structure, demonstrating multi-tenant testing with parallel execution capabilities
- Created comprehensive test documentation including test plans, test cases, defect reports, and testing approach covering both manual and automated strategies

QuickKart - Multi-Platform E-commerce Automation | *Playwright, Python, Flask, pytest* | [GitHub](#)

- Built Playwright-based browser automation across 4 platforms with API response interception and DOM manipulation; developed Flask REST API with concurrent processing (ThreadPoolExecutor)
- Implemented input validation, in-memory caching with configurable TTL, and SQLite database for data persistence with comprehensive error handling
- Performed load testing with concurrent requests, validated database operations and data integrity, created automated API test scripts using pytest

LLM Council - Multi-Model API Testing Platform | *FastAPI, Python, asyncio, React* | [GitHub](#)

- Built FastAPI backend orchestrating parallel API calls across 5 AI providers using asyncio.gather for concurrent processing with comprehensive error handling
- Implemented automated testing framework validating concurrent API calls, response aggregation, timeout scenarios, and rate limiting behavior
- Documented test cases covering API authentication, edge cases in concurrent request processing, and graceful degradation during API failures

TalentScout - AI-Powered Hiring Assistant | *Python, Streamlit, Groq API, SQLite* | [GitHub](#)

- Built AI chatbot with Groq LLM API, optimized response time through caching strategy to reduce redundant API calls; implemented graceful degradation for API failures
- Conducted functional testing validating question generation logic, response evaluation, database operations, and session management across edge cases

CERTIFICATIONS & COURSES

Software Testing

NPTEL / IIT Kharagpur

Certified in Testing Tools / Selenium with Python / API Testing

ExcelR/NASSCOM

IBM Generative AI for Cyber Security Professionals

IBM / Coursera