

Ahmad Waqar

Lead QA Engineer | AI Systems & Computer Vision | Agentic Test Automation Architect

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SUMMARY

Lead QA Engineer with 12+ years architecting scalable test automation frameworks, specializing in AI-driven testing systems using computer vision, agentic workflows, and LLMs. Currently building vision-based automation with LangGraph and Qwen3-VL for Mercedes MBUX/AAOS infotainment at FYI, leading a cross-platform QA team across mobile, web, and automotive. Proven track record of reducing regression cycles by 60%, achieving 85%+ automation coverage, and mentoring 40+ professionals across 12+ countries. UAE Golden Visa holder and Top 50 ADPLIST Mentor.

SKILLS

Test Automation

Playwright, Appium, Selenium, Cypress, Flutter Patrol, K6, Espresso, XCUITest, Postman, Agent Browser, Browser-Use, Browserbase, Steel.dev, Appium Device Farm

Programming Languages

TypeScript, Python, JavaScript, Java, Kotlin, Dart, Swift

AI Testing & Evaluation

DeepEval, Garak, Guardrails AI, Langfuse, LLM Guard, Promptfoo

AI/ML & Computer Vision

YOLO, Moondream, Qwen3-VL, Qwen3.5-VL, SmolVLM2, CLIP, EasyOCR, Qwen3-TTS, XTTSv2, Fish Audio S1 Mini, Chatterbox Turbo

Agentic AI & LLM Infrastructure

LangChain, LangGraph, Claude Agent SDK, Vercel AI SDK, SmolAgents SDK, Ollama, llama.cpp, vLLM

CI/CD & Cloud Testing

GitHub Actions, Azure DevOps, Docker, Firebase Test Lab, BrowserStack, AWS Device Farm

EXPERIENCE

FYI.AI

Dubai, United Arab Emirates

Lead QA Engineer - AI Systems & Platform Automation

07/2025 - Present

Python, TypeScript, Appium, LangGraph, LangChain, Qwen3-VL:30b, Moondream, EasyOCR, Ollama, Next.js, K6, Docker

- Architected vision-based automation using LangGraph agentic workflows with perception, executor, and verification nodes orchestrated via LangChain, leveraging Qwen3-VL:30b via Ollama for UI element detection and Moondream for action verification across canvas-based and native app UIs.
- Leading QA team across iOS, Android, Web, and Mercedes MBUX/AAOS automotive platforms, managing sprint planning, releases, and cross-functional collaboration in Agile sprints.
- Developing automotive testing framework leveraging computer vision, template matching, and intent simulation for in-vehicle infotainment systems.

Tradeling

Dubai, United Arab Emirates

Senior QA Automation Engineer - Mobile & Web

11/2023 - 04/2025

Flutter (Dart), Patrol, Playwright, K6 (TypeScript), GitHub Actions, Firebase Test Lab

- Built Dart-based Flutter test framework using Patrol with CI/CD via GitHub Actions and Firebase Test Lab, replacing React Native automation.
- Architected Apex UI Engine that auto-validates dynamic UI against API data, catching 25+ critical data inconsistencies pre-release.
- Migrated Rest Assured to K6 TypeScript, unifying functional, load, and browser testing with Grafana Cloud, cutting cycle time by 60%.

Malwarebytes

Tallinn, Estonia

Senior Software Development Engineer in Test

07/2023 - 10/2023

- Automated Android app using Jetpack Compose tests (ComposeTestRules), ensuring critical workflows across multiple device configurations.
- Achieved 95% test coverage for licensing workflows via Playwright UI automation for internal back-office platform.
- Implemented test orchestration in Azure DevOps CI/CD pipeline, improving traceability and enabling structured cross-team collaboration.

- Developed cross-platform mobile testing architecture using Appium with 85% automation coverage, mentoring a team of 5 QA engineers.
- Built cloud testing infrastructure with SauceLabs supporting 15+ device configurations for parallel validation.
- Led enterprise API testing framework using JavaScript, automating 72+ endpoints and reducing regression time from days to hours.

- Built unified mobile/web automation framework (Appium, Selenium) for digital banking with Azure DevOps CI/CD integration.
- Automated payment flow validation across KYC, UB Tablet, and digital channels, earning Outstanding Performance Award.

- Led functional testing for retail asset digitalisation (Siebel CRM, Finacle) with backend API testing using SoapUI across BPM, DMS, and Finnone integrations.

- Built Selenium/TestNG automation framework for web applications; executed performance and API testing using JMeter and SoapUI across enterprise modules over 4+ years.

PROJECTS

Vision-Based Mobile Automation	2025	Cypress Test Data Generator Plugin	2025	API Automation Framework - K6	2024
Open-source agentic testing framework using LangGraph with LangChain, Qwen3-VL:30b via Ollama for perception, and Moondream for verification – automating canvas-based and native app UIs across platforms		Published Cypress plugin for dynamic test data generation with 19K+ monthly downloads, listed on the official Cypress plugins directory and actively maintained npm		TypeScript-based unified testing framework for functional, load, and browser testing with Grafana Cloud dashboards and GitHub Actions CI/CD integration	

EDUCATION

The University of Lahore		Forman Christian College University	
MS in Computer Science with Specialisation in Theory of Computation		BS in Computer Science with Majors in Software Engineering	
2014 - 2016		2010 - 2013	

AWARDS

UAE Golden Visa (10-Year)	2022	Outstanding Performance Award	2020	Top 50 Mentor	2024
United Arab Emirates		Mashreq Bank		ADPList	
Granted as an exceptional talent in Software Engineering under the UAE's long-term residency program for skilled professionals contributing to the country's technology and innovation ecosystem		Recognized for building unified mobile/web automation framework and automating payment flow validation across digital channels		Mentored 40+ professionals across 12+ countries on test automation architecture, framework design, and career growth in QA engineering	