

Ahmed kamel Abdul-khalek

Senior Software QA Engineer

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PROFILE

Software QA Engineer with 4+ years of experience in manual, automation, API, and performance testing across government and enterprise projects in KSA and Egypt. ISTQB certified (CTFL, CTFL-AT, CTFL-MAT). I build AI-augmented QA workflows using multi-agent architectures and MCP services to automate requirement analysis, test case generation, and test execution, which has significantly reduced testing cycle time by approximately 40–50%. I focus on finding the right balance between thorough testing and fast delivery, and I'm always looking for ways to improve how my team works.

WORK EXPERIENCE

Quality Control Engineer at Envnt.

02/2023 – present | Riyadh & Cairo

- Responsible for test plans and test cases for major Saudi government projects, ensuring they align with business requirements and government standards.
- Built an AI-powered multi-agent testing pipeline that covers the full testing lifecycle – from analysing requirements to generating test cases to running them automatically via MCP services – which cut down our testing cycle time significantly.
- One of the agents I developed focuses on requirement analysis – it pulls out testable scenarios from specs, saving a lot of the manual effort we used to spend on test design.
- Also created a test execution agent connected to MCP services for hands-off regression testing across different environments.
- Set up and maintained automated UI test suites with Selenium WebDriver to keep regression coverage solid.
- Handled API testing with Postman and performance testing with JMeter to make sure systems hold up under load.
- Worked closely with developers through Azure DevOps to track bugs, follow up on fixes, and keep releases on schedule.

Key Projects:

- (11/2024 - 12/2025) Tawteen-HRDF (*Human Resources Development Fund*)
- (2/2024 - 11/2024) Infath Project (*The Attribution and Liquidation Center of the Ministry of Justice*)
- (6/2023 - 2/2024) ECZA/IGS Project (*Economic Cities and Special Zones Authority*)
- (2/2023 - 6/2023) TGA Project (*Transport General Authority*)
- Additional projects under NDA are not listed.

Quality control at Smart Gate

10/2021 – 02/2023 | Cairo, Egypt

- Took part in release planning, sprint planning, and daily stand-ups as part of an Agile team.
- Performed manual testing, performance profiling, and wrote detailed test cases and bug reports.
- Helped improve the team's QA processes and documentation over time.

Web Developer at Smart Gate, part time

11/2019 – 08/2020 | Cairo, Egypt

- Built and maintained web apps using PHP Laravel; also handled system testing and validation.

KEY INNOVATION

AI-Driven Testing Pipeline

Designed and built a system of multiple AI agents, each responsible for one stage of testing: analysing requirements, writing test cases, and executing them through MCP services. This replaced what was a completely manual workflow and made our testing cycles much faster.

TECHNICAL SKILLS

AI & Automation: AI-Augmented QA Workflows, Multi-Agent Systems, LLM-based Test Generation, MCP Integration, Prompt Engineering.

Testing: Manual Testing, API Testing (Postman), Performance Testing (JMeter), Automation (Selenium WebDriver), Functional & Non-Functional Testing.

Methodologies: Agile (Scrum), Test Planning & Estimation, Defect Lifecycle Management.

Programming & Database: Java (OOP), PHP Laravel, SQL Server, MySQL, HTML/CSS/JS.

Tools & Platforms: Azure DevOps, Jira, Trello.

CERTIFICATES

(08/2023) ISTQB Certified Mobile App Tester (CTFL-MAT)

- Certificate ID: 230822039

(07/2023) ISTQB Certified Agile Tester (CTFL-AT)

- Certificate ID: 230718005

(05/2023) ISTQB Certified Tester Foundation Level (CTFL)

- Certificate ID: 230509022

EDUCATION

Bachelor Degree in Computer Science

2016 – 2020 | Cairo, Egypt

Faculty of Computers and Artificial Intelligence - Helwan University

LANGUAGES

- Arabic: Native Language.
- English: professional working proficiency.