

# Ahmed kamel Abdul-khalek

## Senior Software QA Engineer

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### PROFILE

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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

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#### 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

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### 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

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**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

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### (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

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### Bachelor Degree in Computer Science

2016 – 2020 | Cairo, Egypt

Faculty of Computers and Artificial Intelligence - Helwan University

## LANGUAGES

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