

ACHRAF BEN ABDESSALEM

AI QUALITY ENGINEERING ARCHITECT

AI evaluation | Quality platforms | Governance | Transformation

Architecting AI-powered quality systems that turn engineering evidence, risk and release readiness into confident decisions.

Target scope: QA Automation Architect | Head of Quality Engineering

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11+

YEARS IN SOFTWARE
ENGINEERING AND QE

10+

AUTOMATION AND QE
FOUNDATIONS DESIGNED OR
MODERNIZED

50+

ENGINEERS LED, COACHED OR
TRAINED ACROSS
ENGAGEMENTS

20+

SOFTWARE PRODUCTS IN ONE
MODERNIZATION PORTFOLIO

EXECUTIVE BRIEF

AI Quality Engineering Architect with 11+ years spanning software engineering, automation and enterprise quality transformation. Architects and develops AI-powered QE platforms, evaluation systems for ML models, LLMs and agents, and governed UI, API, mobile and performance automation. Builds operating models and teams, turns quality and production evidence into release decisions, and leads cross-functional change.

HOW I CREATE VALUE

AI QUALITY ARCHITECTURE

Design AI-powered QE platforms and evaluation systems for ML models, LLMs and tool-using agents alongside reusable UI, API, mobile and performance automation.

TRANSFORMATION AND GOVERNANCE

Set evaluation standards, operating models, risk tolerance, safety controls, quality gates, scorecards and release criteria with traceability and human oversight.

LEADERSHIP AND DECISION SYSTEMS

Translate evidence into executive decisions, prioritize platform roadmaps, build teams and align Product, Engineering, ML, Platform and Security.

RECENT EXPERIENCE

AI Quality Engineering Architect Independent

MAR 2025 - PRESENT
FRANCE / INDEPENDENT

Architecting and developing AI-powered Quality Engineering platforms while leading enterprise transformation across engineering, AI, platform, security and delivery.

- Architect and develop a confidential, pre-release AI-native QE control plane unifying automation, execution evidence, quality signals, risk, triage, test data, production validation and executive quality intelligence.
- Implement a policy-aware LLM gateway on the OpenAI Responses API with model allowlists, data-classification controls, sensitive-data redaction, versioned prompts, structured-output validation, quotas, and token, cost and latency telemetry; design governed workflows for test generation, coverage and regression planning, evidence-backed RCA and human-approved delivery actions.
- Define the AI model and LLM testing strategy across groundedness, hallucination risk, relevance, tool use, safety, prompt-injection resistance, data leakage, latency, cost and drift; implement the first controls through schema validation, safety events, model-call reliability and human-feedback loops.
- Build a multi-engine web, mobile and API automation ecosystem with Playwright, Selenium, Appium, REST Assured, Karate and Cucumber; shape QE operating models and roadmaps, align stakeholders and strengthen teams through standards and coaching.

Senior QA Automation Engineer JCDecaux

OCT 2023 - FEB 2025
PARIS, FRANCE

Modernized automation and common Quality Engineering practices across a portfolio of more than 20 enterprise software products.

- Reviewed test processes and an inherited portfolio of more than 3,000 test cases to surface modernization priorities.
- Reworked the automation framework and legacy CI/CD workflows, then aligned standards and technical guidance with the QA community, business teams and management.

Senior QA Automation Engineer Carrefour

JUN 2023 - OCT 2023
PARIS, FRANCE

Protected critical business and data flows during application refactoring and legacy-system migration.

- Validated APIs, Kafka message flows, end-to-end data movement and critical workflows across interconnected systems.
- Reported evidence directly to stakeholders and directors to support decisions and strengthen QA practices.

LEADERSHIP AT SCALE

Senior QA Automation Lead
SQLI

OCT 2021 - JUN 2023
PARIS, FRANCE

Provided cross-project technical leadership across multiple client missions, from architecture and standards to delivery support and commercial scoping.

- Guided QA engineers, reviewed code across teams and resolved complex automation and pipeline challenges.
- Shaped tooling and CI/CD decisions and translated technical trade-offs for stakeholders.
- Contributed automation ROI analysis and Quality Engineering scope to commercial proposals.

SELECTED SQLI CLIENT ENGAGEMENTS

FOUNDATIONS AND INDUSTRIALIZATION Airbus Helicopters Kamera Express	Introduced Selenium/Cucumber automation, pipelines, standards and Xray reporting for complex aviation workflows; established greenfield Selenium automation and API checks across ecommerce environments. Selenium Cucumber Java Postman AWS Xray
MOBILE AND TESTABILITY Marjane Mall Cdiscount	Led an Appium/BrowserStack mobile framework and work coordination; expanded Selenium C# coverage and improved React testability. Appium BrowserStack Selenium C# React Xray
PERFORMANCE AND OBSERVABILITY My Jewellery	Designed performance coverage for demand peaks with Lighthouse audits, Gatling load models, Datadog monitoring and GitLab CI. Lighthouse Gatling Datadog GitLab CI

Senior QA Automation Engineer
Proxym Group

MAY 2018 - AUG 2021
SOUSSE, TUNISIA

Founded and led the Quality Automation Engineering capability across a regional digital factory, serving as the central automation partner for engineering and delivery leaders.

- Built and led a team that reached 10 engineers at peak.
- Designed reusable Dockerized web, mobile, API and performance environments, CI/CD pipelines and a shared QA dashboard used internally and by clients.

SELECTED MULTI-CLIENT EVIDENCE

BANKING QUALITY ENGINEERING Barwa Bank, now Dukhan Bank Applied risk-based automation to business-critical digital banking journeys and service integrations, strengthening regression and release evidence.
MOBILE PUBLIC SERVICES Roads and Transport Authority (RTA) Structured reusable mobile automation coverage for essential public-service journeys and release validation.
REGIONAL QE FOUNDATIONS Banking Government Telecom, Middle East Scaled shared web, mobile, API and performance foundations across a multi-domain portfolio, supported by Docker, CI/CD and shared QA reporting.

SOFTWARE ENGINEERING FOUNDATION

Diva Software | Software Engineer OCT 2016 - APR 2018
Combined web and mobile engineering with product consulting, test delivery, release monitoring and production deployments for industrial software.

Think++ | Software Engineer DEC 2015 - OCT 2016
Built a real-time backend-to-mobile synchronization prototype and supported platform testing, reporting and engineering for education products.

R&D INITIATIVE / IN DEVELOPMENT

Building an AI-native Quality Engineering control plane

Architecting a confidential, pre-release platform that unifies strategy, planning, execution evidence, risk, release readiness, production signals and continuous improvement. Its governed AI layer combines model and MCP gateways, context controls, structured outputs, human approvals, provenance, audit, cost and latency controls, and isolated workers.

EXPERTISE AND TECHNOLOGY

AI EVALUATION AND SAFETY
OpenAI Responses API, AI model and LLM testing strategy, prompt and response testing, MCP, agent orchestration, human-in-the-loop, groundedness and hallucination risk, prompt-injection resistance, AI safety, model governance, AI observability

QUALITY PLATFORMS AND AUTOMATION
Quality control planes, Playwright, Selenium, Appium, Cypress, Robot Framework, Cucumber, Provar, REST Assured, Karate, Postman/Newman, JUnit, Allure, Gatling, JMeter, Lighthouse

CLOUD-NATIVE ENGINEERING AND DATA
Java, Spring Boot, Angular, TypeScript, JavaScript, Node.js, Go, Python, C#, REST APIs, JSON Schema, microservices, event-driven architecture, PostgreSQL, Redis, Kafka, Flyway

DELIVERY, OBSERVABILITY AND SECURITY
Docker, Kubernetes, Helm, GitLab CI/CD, GitHub Actions, Jenkins, Nginx, AWS, Azure, BrowserStack, Prometheus, Grafana, Alertmanager, Datadog, Vault, gVisor, mTLS/SPIFFE, RBAC, S3/SSE-KMS

LEADERSHIP AND GOVERNANCE
QE strategy and operating models, platform roadmaps, risk-based prioritization, quality gates, release readiness, KPIs and ROI, executive communication, stakeholder alignment, team building, coaching and change adoption

EDUCATION AND LANGUAGES

Software Engineering | International Multidisciplinary School (EPI), Sousse | 2018 - 2021

Bachelor of Science in Computer Science | Higher School of Science and Technology of Hammam Sousse | 2011 - 2016

English: fluent, IELTS certified | French: fluent