

PROFESSIONAL SUMMARY

ISTQB Certified Senior Test Engineer with 6 years of cross-industry experience, utilizing both TDD and BDD in **FinTech**, Government, & Digital Banking. Specializing in architecting high-assurance quality ecosystems, I build and scale robust automation frameworks (Cypress, Playwright, Selenium, Appium), and champion 'Shift-Left' within Agile/DevOps. Proven experience in leading quality strategy, mentoring teams, and leveraging AI for continuous quality optimization.

PROFESSIONAL EXPERIENCE

Real Time Technologies (QPAY Team) | Miami, USA | **Senior QA Engineer** | Nov 2022 – Present

- **Framework Modernization (POM):** Architected a modular automation ecosystem by migrating legacy scripts to **Playwright and Cypress** using the Page Object Model (**POM**). This redesign reduced maintenance overhead by **75%** and accelerated execution for critical financial workflows.
- **AI-Driven Quality Engineering:** Engineered an industry-first AI-assisted testing workflow using **Gemini CLI and MCP Chrome Dev Tools**. Simulated complex user behaviors and edge cases, achieving an **88%** increase in test coverage where standard automation failed.
- **White-Box & Data Integrity:** Developed and automated comprehensive White-Box integration tests with **Cypress**, rigorously validating business logic across multiple microservices and over **50 MSSQL** database tables. This effort ensured 100% data consistency for real-time transaction ledgers, fulfilling critical regulatory compliance, and simultaneously boosting the efficiency of test execution (including smoke, sanity, and regression) by **85%**.
- **Defect Lifecycle & RCA:** Spearheaded the "Hunt Bugs" initiative by enforcing mandatory Root Cause Analysis (**RCA**) and strict reporting protocols. Utilized **Kibana** for real-time log analysis and applied Risk-Based Testing (RBT) to prioritize high-risk financial flows. This comprehensive approach resulted in an extremely minimal number of production defects, typically fewer than three this year (2025), significantly reducing post-release critical issues.
- **DevOps & CI/CD Integration:** Embedded automated quality gates into **Azure DevOps pipelines** ("Automate Everything" strategy), accelerating release velocity and **ensuring code stability** prior to deployment.
- **Agile Collaboration:** Drove significant improvements in Quality Assurance (QA) processes by championing and implementing "Shift-Left" testing methodologies. This involved integrating testing strategies early in the Software Development Life Cycle (SDLC) through daily collaboration with Development, Scrum Master, Product Owner, and DevOps teams. This approach fostered a culture of shared quality ownership and resulted in improved documentation and overall efficiency.
- **Mentorship:** Provided expert mentorship to 5+ QA engineers, establishing best practices for automation architecture and the integration of **AI agents** into the testing lifecycle. Contributed actively to sprint planning by providing accurate testing estimations using story points.

Social Nest | Dubai (Remote) **Lead SDET (Seasonal Contract)** | Oct 2024 – June 2025

- **BDD Framework Architecture (Playwright / TypeScript):** Spearheaded the adoption of a Behavior-Driven Development (BDD) ecosystem and Playwright (TypeScript). Designed a modular framework with reusable step definitions, ensuring 100% alignment between QA automation and business acceptance criteria across 100+ critical feature files.
- **Mobile & Cloud Automation:** Architected a scalable mobile testing grid using **Appium** and **BrowserStack**, enabling parallel execution across **iOS** and **Android** devices. This infrastructure reduced regression cycles by **40%** while ensuring consistent UI performance across fragmented mobile environments.
- **Strategic Testing & Log Analysis (Kibana):** Applied Risk-Based Testing (RBT) to prioritize high-traffic user flows. Designed 250+ scenarios targeting "marketing spike" conditions, catching 95% of functional defects pre-release. Analyzed logs via Kibana to support debugging and root-cause analysis, preventing critical downtime during peak user activity (30,000+ concurrent users).
- **Performance Engineering (JMeter & API Bottlenecks):** Orchestrated high-impact load testing using **Apache JMeter**, identifying and resolving critical API gateway bottlenecks to ensure system resilience under heavy social engagement loads, contributing to performance and **load testing** objectives.
- **Stakeholder Transparency & Data Validation (SQL):** Developed comprehensive QA dashboards in **ClickUp**, providing the Project Manager and technical teams with **real-time visibility** into defect density, test stability, and release readiness. Validated backend data using **SQL** for thorough data integrity checks.

- **CI/CD Integration** (GitHub/GitHub Actions): Integrated automation scripts into the **CI/CD pipeline using GitHub Actions** and **Slack** integration to enable automated regression runs and rapid feedback on regression code defects.
- **API Testing & Postman**: Developed and executed a comprehensive suite of 200+ API validation tests using **Postman with Newman** reducing integration defects by 30% and ensuring the stability of data exchange between internal systems.

Siren Analytics / CME | Beirut, Lebanon **Senior QA Automation Engineer (Government Sector)** | Apr 2021 – Nov 2022

- **Defect Prevention Strategy**: Streamlined the Defect Management Process using Jira. Enforced strict reporting standards that reduced bug recurrence and accelerated time-to-market by 40%.
- **Collaborative Testing**: Worked seamlessly within cross-functional teams, coordinating with the Scrum Master to integrate automated quality gates into the definition of done (DoD).
- **Scalable Automation**: Deployed a scalable Java/Selenium framework, achieving an 83% reduction in manual regression workload.
- **API Validation**: Conducted rigorous API testing using REST Assured to validate complex data payloads for government-scale legacy migrations (5 million citizens).

sKash | Beirut, Lebanon **Test Engineer (Digital Banking)** | Feb 2020 – Apr 2021

- **Automation Framework**: Developed automation for digital banking solutions using Selenium SpecFlow and Cucumber (C#), ensuring BDD (Behavior Driven Development) alignment between technical and non-technical stakeholders.
- **Efficiency**: Reduced manual regression effort by 25% through strategic automation of repetitive financial transaction flows.

Layer / Ubanquity | Beirut, Lebanon **QA Automation Engineer** | Jul 2019 – Feb 2020

- **Mobile Automation**: Implemented Flutter-based automation tests, contributing to a 25% increase in testing velocity for mobile applications.

CORE COMPETENCIES & TECHNICAL SKILLS

- **Automation Frameworks**: Selenium, SpecFlow, Cucumber, Playwright, Cypress, Appium, WebDriverIO, REST Assured.
- **AI & Intelligent QA**: Gemini CLI, MCP (Model Context Protocol), AI-Agent Simulation, Large Scale Data Validation.
- **Cloud & DevOps**: Azure DevOps (CI/CD Pipelines), Docker, Kubernetes, GitHub Actions, BrowserStack.
- **Testing Tools**: Apache JMeter (Performance), Postman/Swagger (API).
- **Regulatory & Process**: ISTQB Standards, Risk-Based Testing (RBT), GxP-Aligned QA, Data Integrity, Agile/Scrum.
- **Languages**: C#, Java, TypeScript/JavaScript, Python.

EDUCATION & CERTIFICATIONS

- **BA and M1 Computer Science** | Lebanese University, Faculty of Sciences II | 2015 – 2019
- **ISTQB Certified Tester Foundation Level (CTFL)** | 2025
- **Test Automation Certificate** | Test Automation University | 2021