

Osman Turalioglu

Senior QA Engineer

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📁 Portfolio
✔ Right to work in the UK

Summary

ISTQB-certified Senior QA Engineer with a proven track record across mainframe-integrated airline systems, web security, avionics, and GIS. Experienced in designing and scaling end-to-end automation frameworks that reduce manual effort, strengthen agile collaboration, and safeguard release quality. Skilled in building tools and metrics for business users, and an early adopter of AI-assisted testing

Experience

May. 2024 - **Senior QA Engineer**, *Emirates Airlines*, Dubai.

- Ongoing
- Designed and executed end-to-end API and UI test automation for mainframe-integrated airline applications covering dynamic pricing, revenue management, group sales and NDC-based order management flows.
 - Led extensive **SOAP API and XML validation testing**, validating complex request/response flows across more than 200 scenarios, from basic AirShopping and OfferPrice to OrderCreate, OrderChange and advanced ancillary servicing flows.
 - Performed deep XML structure validation, schema verification, business rule checks, and cross-message consistency validation across multi-step request/response chains (up to 24+ sequential message exchanges).
 - Built and enhanced a **Python/Flask batch comparison tool** to compare legacy vs migrated system responses, ensuring backward compatibility preservation while validating newly introduced functionalities during migration testing.
 - Implemented security hardening for internal QA tools (strict input validation, secure file handling) and owned vulnerability remediation activities.
 - Early adopter of AI-assisted testing approaches: ran PoCs, evaluated vendor AI tools, and contributed to a QA-wide AI learning roadmap.
 - Actively collaborated with business stakeholders and vendors; proactively escalated and tracked critical incidents to protect release timelines.

Dec. 2021 - **QA Automation Engineer**, *Invicti Security*, WebApp Security, Remote.

- Feb. 2024
- Played a pivotal role in all monthly software release tests and managed software releases, ensuring seamless integration and deployment processes through effective communication with release managers, developers, and DevOps teams.
 - Spearheaded the increase of automation test coverage by designing, developing, and maintaining automated tests for new features like Single Sign-On (SSO), Role-Based Access Control (RBAC), Risk Scoring, and Agents, drastically cutting down manual testing efforts.
 - Proactively investigated and resolved over 200 software issues as documented in JIRA bug tickets, significantly enhancing product quality and user satisfaction.
 - Orchestrated hundreds of regression tests, maintaining software integrity and functionality with each new release or update.
 - Conducted daily monitoring of nightly automation runs and maintained the automation suite to ensure its optimal performance and reliability.
 - Enhanced API testing frameworks using REST Assured with Java, integrated with Postman for API automation, significantly improving test efficiency, and reducing error rates in continuous integration environments.

Feb. 2021 - **Software Test Engineer**, *Havelsan*, Troubleshooting Simulators, Ankara.

- Oct. 2021
- Managed multiple avionics troubleshooting simulator environments for aircraft, ensuring the precise and effective execution of test scenarios.
 - Developed more than 50 detailed test plans, scenarios, use cases, scripts, and procedures for avionics systems, providing technicians with realistic training modules.
 - Compiled and delivered comprehensive test outcome reports, identifying and confirming the resolution of over 100 avionics system anomalies, thus enhancing the simulator training program's fidelity and educational value.

- Dec. 2020 - **Software Test Engineer**, *SimBT*, Geographic Information System, Ankara.
- Feb. 2021
- Led a comprehensive suite of tests, including white-box, black-box, automated, and regression tests, for the GIS project, ensuring wide coverage and early identification of key issues.
 - Worked closely with the development team to efficiently identify and analyze root causes of issues, significantly contributing to the project's success within a short timeframe.
- Feb. 2020 - **System Test Engineer**, *Zinek*, Avionics Systems, Ankara.
- Dec. 2020
- Defined test requirements for the system across three major projects (IFF, COMM, and ILS), establishing the foundation for rigorous testing protocols.
 - Addressed and resolved avionics issues in more than 100 test, production and field aircraft, improving system performance and reliability.

Certifications and Projects

- Aug. 2025 **ISTQB Certified Tester — AI Testing (ISTQB CT-AI)**.
Demonstrates proficiency in testing AI/ML-enabled systems, including test strategy / design, data quality, risk / ethics and tool support.
- May 2023 **ISTQB Advanced Level Test Automation Engineer (ISTQB CTAL-TAE)**.
Achieved the globally recognized CTAL-TAE certification, demonstrating advanced proficiency in test automation engineering principles, methodologies and best practices.
- Dec. 2021 **Usage of Gherkin Language for Turkish-Speaking Software Customers**, *Master of Science Project*.
Conducted a study on implementing the Gherkin language in software projects for Turkish-speaking customers, enhancing project communication and documentation.

Skills

Quality Engineering	Test Strategy, Test Planning, Regression Testing, Risk-Based Testing, Migration Testing, Performance Testing (JMeter), Accessibility Testing (WCAG), Contract Testing (Pact), Shift-Left Testing, Exploratory Testing
Automation Frameworks	Playwright, Selenium WebDriver, Cypress, WebdriverIO, BDD (Cucumber/Gherkin), Test-Driven Development, Parallel Execution
Programming Languages	Python, Java, TypeScript, JavaScript, HTML, CSS, Flask
API & Data Validation	SOAP, REST APIs, GraphQL, XML/XSD, Schema/Contract Validation, SQL, REST Assured, Postman, Swagger/OpenAPI
CI/CD & DevOps	Git, GitHub, Bitbucket, GitLab CI, Jenkins, Docker, Linux, AWS, Datadog
Domain Expertise	Airline/NDC Flows, Revenue Management, Dynamic Pricing, Mainframe Applications, SSO/RBAC, Web Application Security, Avionics Systems
AI Innovation	Generative AI / LLM Testing, AI-assisted Testing PoCs, Prompt Engineering, LLM Evaluation, RAG, MCP, GitHub Copilot, GitLab Duo, Claude Code
Collaboration & Delivery	JIRA, Confluence, Allure Reporting, Reporting & Metrics, Stakeholder Communication, Agile (Scrum/Kanban)

Education

- 2020–2022 **Master of Science in Software Engineering**, *Hacettepe University*, Ankara, Turkey.
- 2014–2019 **Bachelor of Science in Electrical-Electronics Engineering**, *TOBB University*, Ankara, Turkey.

References available upon request.