

ILKER SENTURK

Sr. Software QA Automation Engineer

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SUMMARY

Results-driven Senior QA Automation Engineer with 7+ years of experience architecting scalable test automation frameworks, optimizing CI/CD pipelines, and improving test efficiency across highly regulated, data-driven applications. Proven expertise in both UI and backend automation, infrastructure-as-code (Terraform), and cloud-based testing environments using AWS and Azure. Known for delivering robust QA solutions that reduce cycle time, ensure data integrity, and align QA efforts with strategic business goals. Strong communicator, mentor, and cross-functional collaborator with hands-on leadership in integration testing, DevOps workflows, and cloud-first automation initiatives.

TECHNICAL SKILLS

Automation Tools: Selenium WebDriver, Playwright, Cypress, Robot Framework, JMeter, Postman, Pytest, TestNG, Jenkins, Selenium Grid, GitHub Actions, Docker

Languages: Python, Java, JavaScript, SQL, Bash, HTML, CSS, Gherkin

Frameworks: Page Object Model, Data-Driven Testing (DDT), Behavior-Driven Development (BDD)

Cloud & DevOps: AWS (EC2, ECS, S3, SNS, RDS, Lambda, API Gateway), Microsoft Azure (Azure Pipelines, Azure Notebooks, Azure SQL, Data Bricks), Terraform, Git, GitHub, GitLab, Jenkins, CI/CD pipelines

Databases: MySQL, Oracle, Azure Data Bricks, MongoDB

Operating Systems: Windows, macOS, Linux

Tools & IDEs: IntelliJ, PyCharm, Eclipse, VS Code, Rally, Jira, Azure Notebooks

Methodologies: Agile-Scrum, Agile-Kanban

PROFESSIONAL EXPERIENCE

CVS Health - Remote

Sr. Software QA Automation Engineer

Feb 2023 - Present

- Led a major refactoring initiative converting legacy test suites into dynamic, scalable frameworks using Pytest, Docker, and Selenium Grid, resulting in an 80% reduction in runtime.
- Developed Azure-based test infrastructure using Azure Pipelines, Data Bricks, and Azure SQL to drive scalable test automation in cloud environments.
- Released Azure Notebooks for validating pipeline data flows, improving coverage of ETL and data analytics.
- Integrated Pytest with Jenkins pipelines to enable parameterized, environment-specific executions.
- Implemented alerting for automated test failures and deployment triggers, increasing stakeholder visibility.
- Developed SQL queries and backend validations to ensure frontend data integrity and regulatory compliance.
- Created reusable Python libraries for API testing, output validation, and configuration-driven test execution.
- Leveraged Microsoft Power Automate and integrated it with GitHub Actions to enable no-code test execution flows. Users could trigger automation by submitting Microsoft Teams forms, which dynamically mapped inputs to test methods and executed scripts without needing to write code.
- Acted as Integration Test Lead for cross-functional features, aligning test efforts with sprint goals.

Qualitest - Atlanta, GA

Software QA Automation Engineer

Aug 2022 - Feb 2023

- Built multiple automation frameworks from scratch using Python, Selenium, and Robot Framework.
- Led automation efforts for multiple modules and conducted peer code reviews to ensure adherence to coding standards and framework consistency.
- Took initiative to enhance flaky test case stability, reducing false positives by 60% through strategic use of wait conditions and custom assertions.
- Created runtime Excel-based test data generators to enhance configurability and test readability.
- Designed and executed front-end, backend, and API tests using Java, JavaScript, and Unix scripting.
- Proactively resolved CI pipeline failures by integrating error-handling mechanisms and improving log visibility.
- Collaborated with developers on dynamic element locators and XPath tuning for responsive UIs.

- Implemented Jenkins pipelines for regression and smoke tests, increasing automated test coverage by 40%.
- Supported Unix-based backend testing and executed commands from within test framework.

Fiserv - Atlanta, GA

Software QA Automation Engineer

Jan 2020 - Jul 2022

- Developed BDD frameworks using Cucumber and TestNG for continuous delivery pipelines.
- Wrote modular, reusable test components in Java and Python to validate critical financial workflows.
- Led cross-browser test initiatives using WebDriver Manager (Chrome, Firefox, IE).
- Performed backend and web service testing with SQL and Postman.
- Set up Jenkins CI pipelines to execute full regression suites across multiple branches.
- Played a collaborative role in agile ceremonies, ensuring test planning aligned with business requirements.
- Took ownership of QA deliverables in sprint cycles, ensuring timely completion of test coverage goals.
- Proactively identified bottlenecks in test execution and introduced improvements to increase throughput.
- Fostered a strong working relationship with development teams to triage issues and streamline release cycles.

Logistics Plus - Erie, PA

Software QA Automation Engineer

Jan 2018 - Dec 2019

- Designed Page Object Model-based automation frameworks in Java using Selenium, JUnit, and Maven.
- Performed smoke, regression, and UAT tests for supply chain and logistics applications.
- Built BDD test cases with Cucumber (Gherkin), integrated with Jenkins CI for distributed testing.
- Conducted API testing with Postman and automated API validations.
- Developed SQL queries for comprehensive backend data verification.
- Gained exposure to full software delivery lifecycle by collaborating closely with cross-functional teams including product, dev, and support.
- Maintained strong documentation practices to support knowledge sharing and onboarding of new QA team members.
- Frequently received positive feedback from stakeholders for clear bug reporting and test execution insights.
- Contributed to quality goals beyond automation, including usability and exploratory testing efforts.

EDUCATION

Master of Science in Computer Science

Georgia Tech University - Atlanta, GA (Expected 2025)

Bachelor of Science in Mathematics

Erciyes University - Kayseri, Turkey

MILITARY SERVICE

Medical Logistics Specialist - Army Reserve

Fort Gillem, GA

- Coordinated the procurement, storage, and distribution of critical medical supplies.
- Participated in training exercises to maintain operational readiness.
- Executed logistics planning and vehicle maintenance for deployment preparedness.

CLOUD PROJECT SHOWCASES

AWS Infrastructure Automation Project

Self-Initiated | 2024 - Present

- Architected and deployed a modular AWS infrastructure using Terraform to provision ECS Fargate services behind an Application Load Balancer, integrated with an RDS MySQL database.
- Created secure S3 buckets to store test artifacts, static content, and historical test reports for long-term traceability.
- Used AWS Lambda to trigger test result notifications and connected with AWS SNS for alerting QA and dev teams.
- Built an API Gateway-based endpoint to invoke tests remotely, enabling stateless test orchestration.
- Connected the entire test pipeline with GitLab CI/CD, allowing infrastructure and test code to be deployed together in isolated branches.

- Implemented IAM roles and policies to isolate access for dev, QA, and monitoring systems.

Microsoft Azure QA Data Pipeline Project

Self-Initiated | 2024 - Present

- Designed an end-to-end test validation pipeline using Azure Data Bricks, Azure Notebooks, and Azure SQL to ensure data accuracy in a simulated healthcare analytics application.
- Created parameterized Pytest frameworks that validate transformed data between stages using dynamically loaded configs.
- Deployed Azure Functions to trigger validation logic and notify teams using Microsoft Teams and Power Automate.
- Integrated GitHub Actions with Azure Pipelines to enable CI workflows for QA automation across datasets.
- Developed dashboards and logs stored in Azure Blob Storage for post-execution review.
- Used ARM templates to define infrastructure components and automate provisioning.