

Erdal Kilic

Senior SDET / Quality Automation Engineer

Playwright | Java | API/Microservices | AWS | CI/CD | AI-Assisted Testing

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PROFESSIONAL SUMMARY

Senior SDET / Quality Automation Engineer with 9+ years of experience building and maintaining automation for healthcare, financial services, and cloud-based enterprise applications. Hands-on experience with Java, Playwright, Selenium, API and microservices testing, SQL/backend validation, AWS, and CI/CD. Currently support a healthcare TPL platform spanning 26 state implementations, 300+ automated regression scenarios, 20+ APIs and integrated services, and daily automated sanity testing. Experienced with distributed and asynchronous workflows, reusable test data, cloud validation, DevOps fundamentals, and AI-assisted automation using GitHub Copilot and generative AI tools. AWS Certified Developer - Associate and AWS Certified Cloud Practitioner.

CERTIFICATIONS

- AWS Certified Developer - Associate
- AWS Certified Cloud Practitioner

TECHNICAL SKILLS

Test Automation: Playwright, Selenium WebDriver, Cypress, TestNG, JUnit, Cucumber, Karate, Appium, JMeter, Selenium Grid, Apache POI, SoapUI/ReadyAPI

Programming: Java, JavaScript, TypeScript, Python, SQL, Gherkin

API / Services: REST Assured, Postman, RESTful APIs, Hamcrest, Jackson, JSON Schema Validation, XML, JSON, Swagger/OpenAPI

Frameworks / Patterns: Page Object Model (POM), BDD, TDD, Data-Driven Testing, Serenity BDD

CI/CD & DevOps: Jenkins, GitLab CI/CD, Git/GitHub, Maven, Gradle, Docker, Kubernetes/EKS, Bamboo

AWS / Cloud: AWS, EC2, S3, SNS, SQS, Lambda, API Gateway, Step Functions, EventBridge, RDS, EKS

Databases: Oracle, PostgreSQL, MySQL, MongoDB, SQL Server, JDBC

Quality / Tools: Jira, Xray, BrowserStack, Sauce Labs, Agile/Scrum, SAFe, Linux/Unix, macOS, Windows

PROFESSIONAL EXPERIENCE

DTCC, Jersey City, NJ - Contract | Software Development Engineer in Test (SDET) | May 2021 - Present

- **Automation Framework Engineering:** Design, develop, and maintain scalable automation frameworks using Java, TestNG, Maven, Cucumber, and modern JavaScript-based tooling, emphasizing reusable components, maintainability, and reliable execution.
- **AI-Assisted Test Automation:** Integrate AI-assisted development into QA automation workflows using GitHub Copilot, leveraging specification-driven development and established framework patterns to generate, refactor, and scale automated tests while maintaining engineer-led code review and validation.
- **Generative AI for QA Engineering:** Leverage Generative AI capabilities to accelerate test scenario creation, troubleshoot automation failures, improve code quality, and increase development efficiency across UI, API, and regression automation.
- **UI Automation:** Build and maintain automated end-to-end and regression coverage using Playwright, Selenium WebDriver, and Cypress for complex web applications and cross-browser workflows.
- **API & Integration Testing:** Automate REST API validation using REST Assured, Postman, Karate, JSON/XML validation, and backend data verification across functional and integration layers.
- **Test Strategy & Execution:** Create and execute smoke, sanity, functional, regression, and integration suites; analyze failures and provide release-readiness feedback to engineering and product teams.
- **CI/CD & DevOps:** Integrate automated suites into Jenkins and GitLab CI/CD pipelines to support continuous testing, scheduled execution, reporting, and rapid feedback.
- **AWS / Cloud Validation:** Validate cloud-based workflows and services across AWS environments, including EC2, S3, SNS, SQS, Lambda, API Gateway, Step Functions, EventBridge, RDS, and EKS/Kubernetes.
- **Backend & Database Testing:** Write SQL queries to validate data integrity, business rules, and application behavior across Oracle, PostgreSQL, and MySQL databases.
- **Performance Testing:** Design and execute load and stress tests with Apache JMeter to identify performance bottlenecks and assess application scalability.
- **Quality Collaboration:** Partner with developers, product owners, and QA teams throughout the SDLC; manage defects and test evidence in Jira/Xray and contribute to Agile planning, triage, and release activities.
- **Scripting & Utilities:** Develop supporting automation and test utilities using Java, JavaScript, Python, and Linux/Unix shell scripting.

CareFirst BCBS, Jersey City, NJ - Contract | Software Development Engineer in Test (SDET) | Apr 2019 - May 2021

- Designed and implemented a Page Object Model automation framework using Java, Selenium WebDriver, JUnit, Cucumber, and Maven.
- Developed and executed functional, regression, smoke, black-box, and cross-browser tests across QA, staging, and production-like environments.
- Created BDD scenarios and reusable Selenium components; executed parallel and cross-browser testing with Selenium Grid.
- Logged, tracked, and collaborated on defects in Jira; maintained source code and test assets using Git/GitHub.
- Produced clear test documentation and worked closely with developers to troubleshoot application issues and improve release quality.

WarnerMedia, New York, NY - Contract | Software Development Engineer in Test (SDET) | May 2017 - Apr 2019

- Analyzed business and functional requirements and translated them into test plans, test cases, and automated regression coverage.
- Designed and maintained Java, TestNG, and Selenium WebDriver automation; contributed to BDD framework implementation.
- Performed Oracle database validation with SQL and executed functional, regression, smoke, parallel, and cross-browser testing.
- Managed build, version-control, and continuous-integration workflows using Maven, Git, and Jenkins; reported defects and quality metrics through Jira.

EDUCATION

Eastern Mediterranean University, Famagusta, North Cyprus, Turkey | Bachelor of Science (B.S.) in Computer Engineering | 1998