

# Alper Ozkan

ISTQB Certified Tester

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## Software Development Engineer in Test

### PROFESSIONAL SUMMARY

Highly skilled SDET with 8+ years of experience in manual and automated testing for web-based and client server applications. Proficient in developing and executing comprehensive test plans, test cases, test scenarios, and test scripts using TypeScript, JavaScript, Java, SQL, Python and C#. Expertise in test automation using Cypress, Playwright, Selenium WebDriver, and REST Assured. Experienced in API testing with HttpClient, PyTest, Postman, and managing CI/CD pipelines with Azure DevOps, Github Action and Jenkins. Strong knowledge of SDLC, STLC, and Defect Life Cycle processes. Excellent problem-solving, communication, and interpersonal skills, thriving in fast-paced Agile/Scrum environments.

- Object-Oriented Programming (OOP) using Java, Python, JavaScript, C#, TypeScript
- Developing and maintaining Cucumber BDD/TDD testing frameworks using Selenium WebDriver, Cypress, Playwright, JUnit/TestNG, Maven, Shift-left Testing
- Comprehensive understanding of various testing types: Functional, Front-End, Back-End, End-to-End, Smoke, Regression, Parallel, Data-Driven Testing
- Test automation, CI/CD, and cloud technologies (AWS EC2, S3, Lambda, Azure) using Docker and Kubernetes
- Infrastructure as Code using Terraform,
- REST API automation testing using REST Assured Library, Postman, and Swagger
- Mobile application testing using Appium
- Code quality analysis with SonarQube
- Log analysis and visualization using Kibana and Grafana
- Parallel testing with Selenium Grid, Mabl
- Complex SQL queries and Java Database Connectivity (JDBC) for database verification/validation
- Agile/Scrum Methodology, SDLC, STLC, and Defect Lifecycle
- Documentation: Business Requirement Specifications, Functional Specifications, Test Plans, Test Cases, Test Scenarios, Test Reports, Bug Reports
- Defect tracking and management using Jira/Jira-Xray

### TECHNICAL SKILLS

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- **Languages:** Python, Java, C#, TypeScript, JavaScript, SQL, HTML, Gherkin
- **Repository System:** Git/GitHub, Bitbucket
- **Monitoring & Analytics:** Grafana (test results, dashboard), Kibana, Sonarqube
- **Frameworks:** Shift left, Cucumber BDD, TDD, E2E, HTTP Client
- **Testing Tools:** Selenium WebDriver, Cypress, Playwright, Maven, Cucumber, JUnit, TestNG, JDBC, REST Assured API, Postman, Swagger, Kibana, Selenium Grid
- **AI/GenAI:** LLMs (local & external) AI Agents, MCP servers, Claude CLI, Codex CLI, LM Studio, and Hugging Face.
- **IDE:** IntelliJ, Eclipse, Visual Studio Code
- **Test Management:** Jira, Azure DevOps
- **Build Tools:** Maven, Kubernetes, Docker
- **Methodologies:** Agile/Scrum
- **CI/CD Tool:** Jenkins, AWS EC2, S3, Mabl, Lambda, Azure DevOps, Github Actions

### WORK EXPERIENCE

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Tinubu Square – insurance

September 2024 - Present

#### Lead Software Development Engineer in Test

- Leading the automation of the regression suits to improve test coverage and efficiency.
- Lead the design and development of AI/ML-powered automated testing frameworks for backend, frontend, and API components supporting insurance analytics platforms.

- Apply prompt engineering and fine-tuning of LLMs to generate test data, optimize model responses, and validate GenAI/ML model outputs across structured and unstructured datasets.
- Architect automated regression and integration testing pipelines using Python, PyTest, and REST Assured, integrated with Azure DevOps CI/CD and GitHub Actions.
- Conduct A/B testing, model comparison, and statistical analysis to validate generative AI output consistency and fairness.
- Collaborate with Data Science and ML Engineering teams to test model lifecycle workflows, including feature extraction, data preprocessing, model training, deployment, and inference validation.
- Mentoring and coaching the team on component testing and API testing to detect defects at an early stage.
- Actively using Grafana to build dashboards for QE KPIs, trend analysis, and real-time test analytics.
- Developing test strategies and frameworks to enhance software quality and reliability.
- Designed and deployed AI/GenAI-powered testing agents (LLMs & AI agents) to generate test scenarios, expand coverage, and reduce manual effort by 40%.
- Collaborating with development teams to integrate automated tests into the CI/CD pipeline.
- Implementing best practices for test automation, improving maintainability and scalability.
- Applied LLMs (local & external) and AI agents to improve test coverage, self-healing tests, troubleshooting, and analytics
- Integrated Mabl into Azure Pipelines and GitHub Actions by building equivalent workflows, enabling seamless end-to-end test automation within CI/CD.
- Designed and automated comprehensive API test suites with data-driven validation, contract testing, and CI/CD integration, improving reliability and reducing defects across microservices.

#### **Derivco – (Betway) [Kubernetes and Cloud Native Essentials](#) / [ISTQB](#) April 2023 – September 2024**

##### **Software Development Engineer in Test II**

- Work in a dynamic Agile (SCRUM) environment: Boosted sprint efficiency by 20% and reduced reported bugs by 30% using TypeScript and JavaScript.
- Designed, developed, and maintained automated testing frameworks for both backend services and AI/ML pipelines, improving system reliability and scalability by 30%.
- Developed and executed automated API, UI, and data integrity tests using Playwright, Cypress, and Postman, achieving a 40% reduction in post-deployment defects.
- Collaborated with data scientists and ML engineers to test and validate generative AI models, integrating metrics such as accuracy, F1-score, precision, recall, and latency into automated reports.
- Built Python- and TypeScript-based automation frameworks to validate ML model performance, covering data preprocessing, model training, and inference validation, increasing testing efficiency by 35%.
- Develop and maintain automated test scripts: Created 1000+ UI test scripts with Cypress and Playwright, cutting manual testing time by 40% and decreasing post-release defects by 15%.
- Perform API testing: Conducted 100+ API tests with HTTP Client in C# and Postman, improving API reliability by 35% and reducing post-deployment issues by 25%.
- Create and execute unit tests and end-to-end (E2E) tests: Implemented 2000+ unit tests and 500+ E2E tests, raising code coverage from 60% to 85% and decreasing production bugs by 30%.
- Develop test plans, scenarios, and cases: Enhanced test execution efficiency by 30% and increased defect detection by 40%, cutting critical bugs post-release by 25%.
- Utilize Azure DevOps for CI/CD: Automated build and deployment, reducing deployment time by 50% and increasing deployment frequency by 40%.
- Manage database tasks with SQL Manager: Optimized database performance by 20% and reduced data-related issues during QA by 15%.
- Research and implement tools: Integrated SonarQube, increasing code coverage from 60% to 80% and improving code quality. Adopted new tools, improving testing efficiency by 15% and reducing time-to-market by 10%.

##### **Helioteca.com**

**Aug 2019 – April 2023**

##### **Software Development Engineer in Test**

- Develop and maintain BDD/TDD Cucumber framework with Page Object Model (POM) using Java as main programming language, Selenium WebDriver for UI browser automation, JUnit for assertions/annotations,

REST Assured Library for API request/response and JDBC – Java Database Connectivity for Oracle Database connection. Using Git/GitHub as Version Control and Maven as project-building tool.

- Perform API manual testing using Postman, REST Assured Library for automation. For Serialization / Deserialization/ of request/response using Jackson/Gson libraries with POJO classes.
- Develop Complex SQL Queries for database communication. Implement automation test scripts with Java Database Connectivity.
- Develop BDD Scenarios using Gherkin Scripting language with Cucumber and applied Step Definition classes
- Generate Cucumber Report with detailed test steps and screenshots. Reproduce, de-bug and find root cause of existing performance product issues. Follow Defect Life Cycle process and keep track of all defects using Jira and working with the development team to facilitate timely corrections.
- Utilize GIT for version control and GitHub as a remote repository to manage and maintain automation code and resources.
- Utilize AWS EC2 instance with Jenkins to ensure timely and efficient execution of Smoke and Regression suites.

## **Gramread .com**

**Jan 2018 – Aug 2020**

### **QA Automation Engineer**

- Developed and executed UI test scripts using Java as programming language, Selenium WebDriver for browser actions, TestNG for assertions/annotations, Maven as project building tool. Wrote Test Cases/Scenarios in Gherkin language.
- Developed and maintained Behavior Driven Development - BDD/DDT Testing framework with Cucumber.
- Extensively utilized Selenium locators such as id, name, className, tagName, linkText, partialLinkText, CSS Selector and XPath to locate Web Elements. Integrated useful Selenium methods to stabilize dynamic elements.
- Tracked, organized and prioritized Software Defects using Jira and work closely with development team to facilitate timely correction. Generated detailed reports with test steps and screenshot

### **Education**

- High School Diploma, Mathematics and Science – Habire Yahsi Lisesi -Istanbul Turkiye
- Bachelor's Degree in Chemistry (incomplete) — *Kocaeli University – Kocaeli -Turkiye*