

DÁNIEL KOVÁCS

Software Development Engineer in Test (SDET)

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PROFESSIONAL SUMMARY

Software Development Engineer in Test (SDET) with 4+ years in test automation and quality engineering for enterprise systems, with a strong focus on reliability and regulatory rigor (banking, industrial). Led the enterprise-wide rollout of Playwright (TypeScript) and designed E2E, API, and integration tests. Clean Code principles. Experienced with containerized test environments (Docker), CI/CD pipelines (Azure DevOps, GitHub Actions), and AI-assisted test generation within clearly defined guardrails. Builder of custom developer tooling, including MCP servers and full-stack internal tools.

CORE SKILLS

- **Testing Principles:** Solid grounding in testing methodologies and best practices; ISTQB Certified Tester (CTFL)
- **Test Automation:** Playwright (TypeScript), Java-based automation (Robot Framework, custom libraries), API / integration / E2E testing (REST)
- **Clean Code & Architecture:** Clean Code principles in test code, test automation framework & architecture design, Page Object Model, Fluent API design, contract testing
- **CI/CD & DevOps:** Azure DevOps Pipelines, GitHub Actions, automated test execution integrated into pipeline
- **Containers & Cloud:** Docker (Playwright-recommended container images), test execution and environments
- **Performance Testing:** Load test design and execution with K6
- **Collaboration & Tooling:** Git (daily use), Jira (years for ticket management), Confluence (Jira, Azure DevOps)

PROFESSIONAL EXPERIENCE

Founder & Owner *steeldecor.hu*

02.2022 – Present

- Conceived, designed, and built a decorative steel & metal e-commerce business from scratch (400+ customer reviews).
- Run product design, brand consistency, and operations; grew the business into a two-person team.
- Built supporting developer tooling, including a custom full-stack CRM (React + Node.js) integrated with the Unas API, and MCP servers for AI-powered SEO content generation.

Test Automation Engineer *E-Group Kft.*

12.2025 – 02.2026

- Designed and implemented automation components following industry best practices, Clean Code principles, and reusable design patterns.
- Leveraged AI-powered test generation within defined guardrails to accelerate test creation while keeping output stable and maintainable.
- Tested a server-side rendered (SSR) application in preparation for a major Angular upgrade.

Test Engineer *Avander Ltd.*

02.2022 – 11.2025

- Designed and built a scalable test automation framework from scratch, adopted as the enterprise-wide standard.
- Selected and introduced Playwright (TypeScript) as the organization-wide testing solution.
- Integrated automated test suites into CI/CD pipelines in Azure DevOps.
- Reduced flaky tests through systematic root-cause analysis and a stabilization strategy, improving suite reliability.
- Increased test coverage and reporting visibility.

Test Automation Engineer *Asseco Ltd.*

05.2020 – 01.2022

- Developed and maintained automated test cases in Java using Robot Framework and custom libraries.
- Ensured test coverage for critical banking features and workflows in a regulated environment.

Test Engineer *thyssenkrupp*

09.2019 – 04.2020

- Performed Hardware-in-the-Loop (HIL) testing for automotive systems.
- Wrote and maintained Python test scripts.

Test Engineer *evosoft*

10.2018 – 09.2019

- Participated in testing industrial automation software; created and executed automated test cases.

Test Manual/Automation Engineer *NNG Ltd.*

10.2016 – 09.2018

- Developed automated test cases using Robot Framework and wrote custom test libraries and utilities in Python.
- Worked in an agile team with Jira-based ticket tracking to ensure software quality and test coverage.

- Performed manual testing on various web-based projects; created and maintained test cases from business requirements.
- Prepared detailed test reports and documentation.

SIDE PROJECTS & OPEN SOURCE

- playwright_ts — Public API-first test framework, Hibrid API + UI with GitHub Actions CI, dependency injection, POM + flow layer, ZOD schema, axe-core, ESLint rules: dongokovacs.github.io/playwright_ts
- unas-mcp — MCP server for AI-powered SEO automation on the Unas platform (product audit, keyword strategy, description and image SEO generation using Claude Vision).
- gls-mcp — TypeScript MCP server for GLS Hungary parcel tracking against the MyGLS REST API, with SHA-512 authentication and client-side filtering.
- steeldecor CRM — Full-stack CRM (React + Node.js) with customer management, order tracking, newsletter delivery, and reporting dashboards.
- Portfolio websites (pro bono) — Built and shipped small portfolio / landing-page websites for local small businesses free of charge, using AI-assisted ("vibe coding") rapid development.
- Google API + GLS + Billingo + Unas order handling integration.

EDUCATION & CERTIFICATIONS

- University of Miskolc — B.A. in Computer Science
- ISTQB Certified Tester (CTFL)
- Automated Software Testing with Playwright (Udemy)
- Playwright API Testing Mastery (Bondar Academy)
- Playwright Design Patterns (LinkedIn Learning)