

Yanqing Li

FOCUS Al test development

Senior test development · AI product quality · Automation and quality platforms

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14 years	100+	90%+	about 5
Years in testing and quality engineering	UI automation cases	Automation coverage of core business within my scope	Current testing team

POSITIONING

Business quality assurance and platform engineering

14 years in testing, test development and quality engineering; currently a senior test development engineer at Autohome (汽车之家). I own quality assurance for AI marketing, livestreaming and auto-reply, the car marketplace, and multi-platform products, lead a testing team of about 5, and work with roughly 20 engineers, product and business colleagues to move delivery forward.

I build and maintain 100+ UI automation cases and dozens of API cases, reaching 90%+ automation coverage of core business within my scope. API regression runs in CI/CD and has caught real problems at build time. PulseGuard, which I wrote, is used across several company projects for front-end page and API health checks.

I work end to end: from a business problem and a test strategy through platform design, front-end and back-end implementation, deployment and verification. I keep developing CaseFlux, and have open-sourced the AI Playwright Framework, Rootloom and Hengmu, focused on automation execution reliability, failure diagnosis and agent engineering governance.

DELIVERY HISTORY Experience

- **Autohome (汽车之家)**
Senior Test Development Engineer
2024.12 – Present

- Own quality assurance for AI marketing tools, the Douyin livestreaming assistant, direct-message and danmaku auto-reply, the car marketplace, H5, mini-program and back-office systems, covering functional, API, UI, exception-path, risk-control and stability verification.
 - Lead a testing team of about 5, running requirements review, test planning, task breakdown and release gating, and working with roughly 20 engineering, product and business colleagues to close out quality risks and defects.
 - Built and maintain 100+ UI automation cases and dozens of API cases, reaching 90%+ automation coverage of core business within my scope; API regression runs in CI/CD and has caught problems at build time.
 - Built PulseGuard myself and applied it across several company projects for front-end page and API health checks, folding scheduled checks, health state, failure evidence and alerts into daily quality work.
- **Lanhu (蓝湖)**
Test Development Engineer / Test Lead
2021.02 – 2024.08

- Owned quality assurance for the Lanhu WebApp, its plugins and related collaboration products, covering requirements review, functional and API testing, UI automation, regression verification and pre-release quality checks.
 - Took on test task breakdown, release cadence and cross-role quality collaboration, tracking quality risks and defects to closure and improving quality visibility through continuous delivery.
 - Drove API and UI automation, multi-environment execution, test data, execution reports and scheduled production monitoring, giving core regression and release verification a stable foundation.
- **MockingBot (墨刀)**
Test Engineer / Test Development Engineer
2017.11 – 2021.01

- Tested MockingBot Web, the desktop client, the mobile app, H5 and the Sketch plugin, taking part in requirements review, case design, functional verification, compatibility testing and regression testing.
 - Drove API and UI automation into place and took part in building test standards, test tooling and pre-release quality checks, supporting stable delivery of the prototyping and collaboration product.

FOUNDATION Earlier career

- Earlier career**
Test Engineer
2012.04 – 2017.10

- Career timeline: Renren (人人网, 2012.04 – 2014.02), Lashou (拉手网, 2014.04 – 2016.02), Daojia (到家美食会, 2016.03 – 2016.12), Shouqi (首汽约车, 2016.12 – 2017.10).
 - Covered clients, business systems, API testing, regression testing, channel package verification and release quality assurance, building a quality foundation across product shapes and business scenarios.

SELECTED PROJECT PROOF Selected projects

01 PulseGuard | UI/API health checks and quality monitoring

Independent build | Open source | Running in several company projects

- Built independently and now used across several company projects for front-end page and API health checks, covering the React / TypeScript front end, a FastAPI / SQLite back end and Docker deployment, with tasks, health state, failure evidence and alerts managed in one place.
- Designed the health state machine to tell a target failure apart from a broken browser or node, keeping screenshots, response bodies and optional traces, with cooldown and recovery notifications, so a failure can be diagnosed.
- Implemented outbound-only Relay nodes, a shared project script library and a read-only MCP diagnosis entry point; a run and its retries bind to the script source snapshot, so a configuration change cannot alter execution already in flight.

02 CaseFlux | AI-native test automation platform

Independent build | Private project, demonstrable in an interview

- Building the testing loop around requirements, functional cases, UI automation, real execution and failure diagnosis, owning the product design, domain model, front and back ends, browser extension and execution pipeline.
- Using React, FastAPI, PostgreSQL, Redis, LangGraph and Playwright to accumulate versioned test assets, plan execution records, step results, screenshots and traces.
- Separating case generation, single-run debugging and formal regression; repair suggestions link to execution evidence, changes to high-impact assets are verified and approved, and failure diagnoses and decisions are recorded.

03 AI Playwright Framework | UI automation framework

Independent build | Open source, under active development

- Built on Playwright, pytest and YAML, separating cases, data, elements and shared steps, supporting multiple projects and environments, dynamic collection and CI regression.
- Keeping execution deterministic while adding AI case generation, locator recovery and natural-language task execution per scenario; generated YAML assets are verified in a real browser before they count.
- Constraining framework quality with schema validation, contract tests, duplicate-definition checks and package installation checks, and diagnosing failures from screenshots, logs and Allure reports.

04 Rootloom | Engineering workflow for coding agents

Independent build | Open source plugin

- Designed the risk routing, root-cause verification, change-scope control and proportional verification flow, so a coding agent implements and reviews changes against repository facts.
- Ships an installable plugin, contract checks and CI; an optional evidence mode links the repository state before and after a change to actual execution results, making completion claims and residual risk reviewable.

05 Hengmu 衡木 | Architecture review and technical decisions

Independent build | Open source plugin

- Connects architecture review, independent verification, option comparison and a change plan; it can also work from design goals and constraints to a target architecture covering data ownership, interfaces and runtime boundaries.
- Validates decision artefacts with Python, JSON Schema, Git evidence and deterministic gates, covering reviews of single repositories, AI agents, mobile clients and multi-project dependencies.

06 Design Skill Arena | A gallery comparing AI front-end results

Independent build | Open source, online demo

- Takes one product brief and collects independently built front-end pages from several models and Skill Chains, keeping the real implementation, screenshots and design sources so responsive behaviour, interaction and visual quality can be compared directly.
- Delivered with Next.js, TypeScript and Cloudflare Pages / R2; the observations are presented as work and method notes rather than dressed up as a ranking of model capability.

CAPABILITY MATRIX Skills

Test development	Python, Playwright, pytest, UI / API automation, E2E, YAML, Allure, test data	Platform engineering	FastAPI, PostgreSQL, SQLite, Redis, React, TypeScript, Docker, Linux
AI engineering practice	LangGraph, MCP, LLM evaluation, natural-language cases, locator recovery, execution evidence, repair review	Quality and delivery	Test strategy, release gating, CI/CD, defect retrospectives, architecture review, continuous health checks, Trace / Prometheus

EDUCATION

Education

- Beihang University (北京航空航天大学) | Computer Science and Technology | Bachelor's (continuing education) | 2020 – 2023
- Anyang Normal University (安阳师范学院) | Computer Network Technology | Associate degree | 2010 – 2012