

Trey Turner

Automation Engineer | CI/CD & Test Infrastructure

Austin, TX

<https://treyturner.info>

PROFESSIONAL SUMMARY

Automation engineer and staff-level SDET with 15+ years designing automated test frameworks, CI/CD pipelines, and developer-facing tooling for complex, multi-service environments. Architects new automation systems, stabilizes unreliable pipelines, leads framework migrations, and builds validation and reporting workflows that help engineering teams ship with confidence. Hands-on experience includes GitHub Actions, deployment tooling, database and performance testing, visual regression, and fault isolation across application, test, and infrastructure layers.

EXPERIENCE

Nirvana Health (M.H.S.) — Senior Software Engineer

December 2024 - January 2026

- Designed and implemented a containerized local development and system-test platform using Docker and Tilt, enabling consistent multi-service environments for development and testing.
- Built system-level testing capabilities in a fragmented architecture with inconsistent configurations and limited existing test coverage.
- Refactored CI/CD pipelines, GitHub Actions, and Terraform to reduce recurring failure modes and streamline deployment processes.
- Diagnosed and resolved systemic failures spanning application services, infrastructure, and build pipelines.

RepeatMD — Senior SDET

December 2023 - June 2024

- Architected and implemented a Playwright-based automation framework for a multi-tenant platform supporting both B2B and B2C interfaces.
- Designed reusable page objects, fixtures, and data-access patterns for scalable, maintainable test development.
- Integrated automated testing into GitHub Actions workflows, improving consistency and reducing manual validation effort.
- Stabilized an unreliable Cypress suite by correcting systemic issues in test architecture, selector strategy, configuration, and execution.

CORE EXPERTISE

CI/CD Pipeline Architecture
GitHub Actions
& Workflow Automation
Test Framework Architecture
Build, Delivery
& Tooling Pipelines
System, API
& Database Validation
Automation Migration
& Reliability
Visual & Rendering Regression
Performance & Load Testing
Fault Isolation & Debugging
Quality Metrics & Reporting

LANGUAGES

Primary
Python
TypeScript
JavaScript
Groovy
Java

Additional
Ruby
PHP

Stoplight.io — Senior SDET, Infrastructure

May 2022 - October 2023

- Re-architected end-to-end test infrastructure and tooling to improve reliability, debuggability, and developer adoption across multiple services and environments.
- Identified and resolved systemic CI instability, isolating sources of flakiness that affected delivery pipelines.
- Led migration from Cypress to Playwright, establishing reusable fixtures, page objects, and test-development standards.
- Developed custom TestRail integrations and reporting pipelines to aggregate results, surface trends, and support data-driven quality decisions.
- Served as escalation point for complex test and CI failures across application code, frameworks, and infrastructure; mentored engineers and QAs in debugging and maintainability.

Kapsch TrafficCom — Test Engineer Manager

August 2019 - May 2022

- Designed and implemented a modular automation framework covering frontend, backend, database, and performance testing across multiple products.
- Built CI/CD-integrated test pipelines and reporting systems, publishing results to shared platforms for visibility into quality metrics.
- Developed reusable tooling and infrastructure for cross-project automation and data-driven quality analysis.
- Established test strategy, release processes, and quality standards across teams; reviewed automation and feature code.
- Built and led a five-engineer software testing team, making six hires and mentoring engineers in test design, automation, and code review.

Live Earth — SDET

October 2017 - June 2019

- Owned quality and test automation for a multi-platform GIS application supporting monthly releases across web and backend systems.
- Built and maintained a Selenium-based BDD suite of 1,300+ tests covering critical workflows and data validation.
- Designed and operated a Selenium Grid with Jenkins CI jobs across multiple environments, browsers, and operating systems.
- Implemented visual regression testing to validate UI integrity and availability of rendered geospatial data.
- Developed CI/CD pipelines for the web client and managed production deployments and hotfix releases.

TECHNICAL TOOLKIT

CI/CD & Delivery

GitHub Actions
GitLab CI
Jenkins
CircleCI
Terraform

UI Automation

Playwright
Cypress
Selenium/WebDriver
webdriver.io

API & Integration

Karate
Postman
Supertest
OpenAPI
Pact

Platforms & Tooling

Docker
Kubernetes
Tilt
TestRail
SonarCloud

Performance

Artillery
Gatling
JMeter

Observability

Datadog
Prometheus
Grafana
Loki