

Trey Turner

QA Manager / Architect / Team Lead / Sr. SDET

<https://treyturner.info>

EXPERIENCE

Stoptlight.io — Senior SDET, Infrastructure

May 2022 - October 2023

Responsible for the health and efficiency of automated test frameworks, tools, and test data sets. Planned and executed architectural changes to repair and enhance test capabilities. Created, debugged, and maintained automated tests and testing infrastructure. Served as an escalation point for test-related technical issues inside and outside the QA team. First responder for tests impacting the pipeline.

Proactively identified emergent and intermittently recurring issues in CI, categorized the fault, and resolved the issue or filed a defect/task. Created, documented and mentored test development standards, patterns, and fixtures for QAs and developers. Participated in code reviews from QAs and developers. Created and maintained test reporting integrations providing visibility into results and metrics.

Accomplishments include:

Suggested, evaluated, implemented, documented, and trained engineers on Playwright as a replacement for an unreliable Cypress test suite. Converted tests using Page Object Model and specialized fixtures to increase velocity and maintainability, and significantly improve developer confidence.

Created and maintained custom TestRail tooling, including a CLI, Playwright reporter, and Jest reporter to collect, manipulate, and aggregate test results. Scripted the summarization of recent test failures as Slack threads to surface top offenders and their failure rates, occurrences, and errors.

Discovered and resolved a variety of bugs, misconfigurations, and incorrect assumptions affecting application and test stability across the whole stack, increasing test determinism and minimizing time to feedback.

Kapsch TrafficCom — Test Engineer Manager

August 2019 - May 2022

Interview, hire, and train a talented and lean automated software testing team from the ground up. Provide ongoing testing and automation support, problem solving, and strategic direction to the team and broader engineering organization. Work with executives to define testing and

SKILLS

QA Management
Software Quality Metrics
UI Automation
REST/SOAP Web Services
Behavior & Test Driven
Development
Agile Methodologies
Continuous Integration
Test Environment Design
Fault Categorization
Documentation

LANGUAGES

TypeScript, JavaScript,
Groovy, Java, Python, Ruby,
PHP

TOOLS

Amazon Web Services (AWS)
Ansible
CircleCI
Confluence
Docker
Gatling
Git
GitHub (incl. Actions)
GitLab (incl. Pipelines)
IntelliJ IDEA
Jasmine
Jenkins
Jest
JIRA
JMeter
JUnit
Karate

release processes that expedite feedback, improve quality, and increase confidence for developers, product owners, managers, and customers. Perform regular automation code reviews and offer feedback to test engineers on how to better engage in the peer review process.

Assemble and maintain a modular test and test reporting framework from open source tools, enabling cross-browser testing of web applications, SOAP & REST APIs, Oracle and PostgreSQL databases, and backend performance testing. Automate rendering and publishing of comprehensive test reports in HTML, PDF, JIRA Xray, and EazyBI. Build, test, and publish test framework builds to Artifactory via GitLab CI to be consumed by downstream product- and project-specific test repositories. Setup and maintain integration test pipelines across a variety of products and projects. Deploy and maintain an automation code linting tool to promote best practices, and implement custom rules as needed.

Perform all line-management duties for my team, including running regular standups, retrospectives, one-on-ones, performance reviews, requisition justification, and auditing of JIRA time logging.

Technologies leveraged in this role include Groovy, Java, JavaScript, Python, Karate, Postman, Spock, Geb, CodeNarc, Gradle, Selenium, Gatling, Apache Poi, GitLab (incl. pipelines), JUnit, Angular, Oracle, PostgreSQL, Microsoft Azure, JIRA, Xray, EazyBI, and WorkDay.

Live Earth — SDET

OCTOBER 2017 - JUNE 2019

Covered all quality and test needs for a multi-platform client/server GIS mapping application. Authored a Selenium/Node BDD automated test suite with over 1,300 tests while simultaneously qualifying monthly releases. Setup a Selenium grid and Jenkins jobs executing against multiple environments and targeting multiple operating systems and browsers with aggregate HTML reports. Authored a visual regression suite to inspect UI and ensure availability of rendered data. Implemented a CI/CD pipeline for the web client, and managed production deployment of releases and hotfixes. Worked with development to design debug interfaces. Built a Node.js test framework for RESTful web services, automating functional and system tests and minimizing interruptions from sales/support. Also responsible for testing native Windows clients as well as iOS and Android tablets and phones. Triaged issues to determine root cause. Assisted with Agile processes and facilitated retrospectives. Authored wiki pages to ensure continuity of team knowledge and quality processes.

Technologies implemented include WebdriverIO, Node.js, JavaScript, Selenium, Mocha, Chai, REST, WebSockets, AWS, NoSQL, and Hyper-V.

WP Engine — SDET II

SEPTEMBER 2016 - SEPTEMBER 2017

Embedded into an agile feature delivery team with focus on test strategy,

Mocha + Chai
Node.js
Pact
PactumJS
Playwright
Postman
Spock
Supertest
TestRail
TestNG
VS Code
webdriver.io
WebDriver/Selenium/Geb

automation, and maintenance, as well as optimization of continuous integration and deployment pipelines. Provided regular guidance to developers and QEs on best practices. Responsible for code and architecture reviews, and authoring/execution of test plans for a variety of front and back end systems, including platform code distributed across a variety of cloud providers and a user-facing account management portal.

Technologies leveraged in this role include Python, Ruby, Rails, SQL, PHP, JavaScript, REST, AWS, Ansible, Jenkins, Selenium, Docker, Vagrant, Apache, Varnish, and nginx among others.

Civitas Learning — *Data Quality Engineer*

OCTOBER 2015 - JUNE 2016

Developed front and back end functional test frameworks using Geb, Spock, Groovy, and Gradle. Created comprehensive Selenium page and module objects for a variety of front end applications and a database-connected framework for validating data processing and ETL. Managed performance test creation and execution, from JMeter tests for front end services to Gatling tests for back end RESTful APIs. Implemented tests and environment management tasks into Gradle and Jenkins. Worked with developers and DevOps to establish isolated environments for performance testing and pinpoint bottlenecks via AWS CloudWatch and DataDog.

Invodo — *QA Automation Engineer / Tech Stack Lead*

OCTOBER 2013 - OCTOBER 2015

Responsibilities included the authoring, review, and execution of WebDriver code leveraging cloud infrastructure and mobile platform coverage to target an HTML5/Flash media player and a Node/Angular CMS. Developed test cases and automation around the analytics, reporting, and ETL portions of the business, as well as the administration of Dynatrace APM.

Accomplishments include the creation of a BDD-style Geb/Spock/Groovy test framework used across all products, implementation of a Jenkins server for automation and reporting, the creation and development of a JavaScript test page which obsoleted a library of static test pages, and creation of Ant and Gradle build scripts for dependency management and threaded execution of test suites. Additional successes include the implementation of a visual database exploration tool to track relational and constraint data, and creation and implementation of a system that generated page-load waterfall charts for performance testing.

AT&T Wi-Fi — *QA Engineer II*

MAY 2010 - OCTOBER 2013

Design and execute manual and automated functional and performance tests using SoapUI, Cucumber, and Groovy to qualify SOAP and RESTful web services in a CI environment. Responsible for onboarding new hires

to the QA team; teaching processes and best practices and providing ongoing support for level 1 engineers.

EDUCATION

Southern Methodist University, Dallas TX

AUGUST 2000 - MAY 2001

I earned two years of Computer Science credits before deciding a certificate program was a better fit for my career needs at that time.