

Tyler Hill

Senior Software Developer in Test

Senior SDET, 15+ years across mobile, web, and API test automation. Currently building AI-assisted test infrastructure at Fieldwire. Background is native iOS (Swift/XCUITest) and web automation, with the last few years focused on making CI signal actually trustworthy instead of something people ignore.

TL;DR

AI & Agentic Tooling: Claude Code, GitHub Copilot, Cursor, MCP (Model Context Protocol), CLAUDE.md / Skills / Hooks architecture, multi-agent orchestration patterns

Mobile Automation: XCUITest, XCTest, Swift, Appium, Kotlin/Android Studio

Web & API Automation: Playwright, Cypress, Postman, Selenium/WebDriver, Nightwatch, PyTest

Languages: Python, Swift, JavaScript/TypeScript, Bash, SQL

CI/CD & Observability: Azure Pipelines, Xcode Cloud, GitLab CI, GitHub Actions, Splunk, Semaphore

Performance & Visual: JMeter, BlazeMeter, Percy, Applitools, BrowserStack, SauceLabs

Tools & Platforms: Splunk, TestRail, JIRA, GitHub, GitLab, Docker (basic)

WORK EXPERIENCE

Senior SDET, Core iOS Team

April 2026 – Present

Fieldwire | Remote

- Own iOS QA infrastructure across CI/CD migration, test framework upgrades, snapshot testing, reporting/metrics, and AI-driven test strategy generation.
- Migrated iOS UI test execution to Firebase Test Lab and built a CodeBuild + FTL pipeline, retaining CircleCI for builds.
- Led a major iOS test framework refactor - collapsed a four-layer hierarchy into a more lean, performant, more resilient page-object async/await framework.
- Contributed in designing AI quality benchmark tests measuring Apple Intelligence operations for AI-driven search and edit pipelines.

Senior SDET Mobile Platform

February 2022 – March 2026

Lululemon | Remote

- Architected a GitHub Copilot-powered XCTest failure diagnosis pipeline - parsed .xcresult bundles, extracted structured failure context, and routed to Copilot CLI for automated root cause analysis. Presented to engineering leadership as the team's first production agentic QA workflow.

CONTACT

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SKILLS

Automation & Test Tools

- XCUI/XCTest
- Playwright
- Cypress
- Nightwatch
- Percy
- JMeter
- Selenium/Webdriver
- PyTest
- Appium
- Postman
- SauceLabs
- BrowserStack

CI & Project Management

- Azure Pipelines
- Xcode Cloud
- GitLab
- GitHub
- Splunk
- JIRA
- TestRail

- Integrated XcodeBuildMCP and Appium MCP into the iOS dev workflow, enabling AI-assisted test execution and inspection directly from the IDE - eliminated the context-switching loop between test runner, logs, and investigation.
- Built a skills-file architecture for AI-assisted unit test generation, giving Copilot structured codebase knowledge so generated tests reflected real patterns rather than generic scaffolding.
- Cut gated smoke regression time 60% - from 10 to 4 minutes - by parallelizing iOS and API tests across Azure DevOps and Xcode Cloud.
- Reduced environment flakiness 30% by migrating to a self-refreshing test data solution, eliminating most ad-hoc manual setup and freeing the team from hours of pre-run maintenance.
- Built end-to-end test execution pipeline with artifact capture, Splunk dashboards, rerun strategy, and flake detection - improving CI signal quality and reducing wasted build cycles.
- Refactored iOS test architecture from monolithic BaseUITest inheritance to a protocol-based system (CDPScreenProvider, CDPFlowProvider), improving composability and reducing maintenance overhead.

Senior Software Engineer in Test

December 2020 – February 2022

Rhino | Remote

- Built Cypress + Postman framework 0 to 450 tests.
- Wired suites into Semaphore CI for < 7 min feedback; stabilized pass-rate.
- Deployed JMeter load + Percy visual checks, cutting critical page loads 25% and catching 90% visual diffs.

Test Automation Engineer

October 2019 – December 2020

Committee for Children | Seattle, WA

- Sole automation engineer; increased coverage 40% and reduced manual QA 30% in Scrum teams.
- Delivered Nightwatch (Node.js) UI, Postman API, AXE a11y & Artillery load suites; BrowserStack matrix cut cross-browser defects.
- Set up Playwright/JS test framework, integrating with our CI/CD Azure.
- Stood up Azure Pipelines CI + docs, improving release predictability and onboarding speed.

Web/Mobile Test Automation Engineer

October 2017 – October 2019

Catalysis | Seattle, WA

- Automated priority cases across iOS, Android, Windows with Selenium, Appium & Python - manual effort -40%.
- Implemented JMeter & VS Load scripts detecting bottlenecks pre-launch and raised perf standards.

Software Test Lead

February 2016 – September 2017

Peloton | Woodinville, WA

- Defined and executed console test strategy; custom Python tools cut validation time 30% and sped bug triage.
- Coordinated offshore vendors, ensuring alignment on automation and on-time releases.

- Semaphore
- Bugzilla
- Basecamp

Languages

- Python
- Swift
- Javascript
- SQL
- Bash

EDUCATION

Northwest Nazarene University

Bachelor of Arts

Awards: Dean's List 2004 (Top 5%)

EARLIER CAREER HIGHLIGHTS

2006 – 2016

Seattle, WA

Microsoft Game Studios, Oberon Media, Smilebox - QA/Test roles on titles like Halo 3, Gears of War and weekly web/mobile content. Built AppleScript & Python utilities that saved marketing and QA teams hours per release and introduced Selenium harnesses for first-generation web apps.

