Marcus Tan Senior SDET

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PROFILE SUMMARY

- **Senior SDET** with **7 years** testing **consumer apps and SaaS chat products**, now owning test architecture for **FanDuel Sportsbook** bet placement and wallet services.
- Works in **TypeScript**, **Kotlin** and **Java** with **Playwright**, **REST Assured**, **Pact** and **Testcontainers**, running suites on **GitHub Actions** and **Kubernetes** runners.
- Deep experience in **contract testing across service teams**, **event-driven test harnesses for Kafka** and **parallel CI design**, with a habit of deleting tests that don't earn their run time.
- Partners with **5 product squads**, the **platform team** and **mobile engineers**, reviewing test plans at kickoff and joining incident reviews when a bug reaches production.
- Mentors **3 SDETs**, interviews for the SDET hiring loop, and wrote the **contract testing guide** 4 teams now follow.

TECHNICAL SKILLS

Programming Languages:	TypeScript, Kotlin, Java, Python, SQL
UI & Mobile Automation:	Playwright, Cypress, Appium, Espresso, XCUITest
API & Contract Tools:	REST Assured, Pact, PactFlow, Postman, gRPC
Test Runners & BDD:	Jest, JUnit 5, Vitest, Cucumber
CI/CD & Test Execution:	GitHub Actions, Kubernetes, Docker, BrowserStack
Mocks & Test Data Tools:	Testcontainers, WireMock, LocalStack, Faker
Reporting & Code Quality:	Allure Report, Datadog, SonarQube, Codecov

EDUCATION

Northeastern University — **B.S. in Computer Science (co-op program)** — Boston, MA · Sep 2014 to May 2019

WORK EXPERIENCE

FanDuel — **Senior Quality Engineer, Sportsbook** — Atlanta, GA · Aug 2022 to Present

- Set up **Pact** contracts in PactFlow between the bet placement service and its **12** consumers, blocking incompatible deploys and cutting integration bugs found in staging by **70%**.
- Wrote risk-based test plans with product and compliance for a new state launch, choosing the test layer for each wagering rule, and shipped it with **0** severity-1 bugs in its first 90 days.
- Built a Kafka event harness on **Testcontainers** with **WireMock** stubs for the geolocation and payment vendors, isolating each test's topics and data, which took the event suite's flake rate from 11% to **1.2%**.
- Moved the sportsbook web **Playwright** suite to sharded **GitHub Actions** runs on Kubernetes runners behind a merge queue, cutting pull request feedback from 38 minutes to **9 minutes**.
- Added an owner tag to every test and routed failures to the right squad through Datadog, cutting the median time to fix a broken main build from 2 days to **5 hours**.

Drift — **SDET** — Boston, MA · Jul 2019 to Jul 2022

- Built the **Cypress** suite for the chat widget and inbox across 40 flows, raising automated coverage of release-blocking paths from 35% to **80%**.
- Wrote **Karate** API tests for 60 endpoints in the conversation service, catching **28** regressions before staging in 2021.
- Set up the team's first parallel **Jenkins** pipeline on Selenium Grid, taking the nightly regression from 3 hours to **45 minutes**.