



David Ortiz

Senior QA Automation Engineer | Agentic QA Workflows |
AI-Assisted Test Selection, Release Risk Analysis &
Automation Infrastructure

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EDUCATION

Coding Dojo
Front End Web Development Bootcamp

Cal State San Marcos
BA in Visual and Performing Arts & Technology

Kansai Gaidai University, Japan
Asian Studies Program

KEY INITIATIVES

Smart Test Picker Agent
Built an AI-assisted Smart Test Picker prototype that analyzes Git diffs, maps impacted product domains, and dynamically selects relevant smoke and E2E suites to reduce targeted regression runtime by ~80%.

QA Reporting & Release-Risk Platform
Designed centralized QA reporting and release validation workflows integrating Codecov, Istanbul, TestMo, and CI pipelines to provide automation visibility, coverage insights, and release-risk assessment during production validation.

Mobile Cloud Automation Agent
Built adaptive mobile automation workflows for Android and iOS capable of handling environment-specific runtime behavior across local simulators and physical cloud devices using TestMu/LambdaTest, Appium, Espresso, and XCUITest.

Measurable Impact
Reduced manual release validation time from ~3 hours to under 40 minutes through automated reporting, selective test execution, and centralized QA visibility workflows.

SUMMARY

Senior QA Automation Engineer with 11+ years of experience building scalable test automation frameworks, release validation systems, and AI-assisted QA infrastructure across web, mobile web, iOS, Android, and 3D/AR platforms.

Over the past two years, I have focused on bringing AI and agentic workflows into the software development lifecycle — designing QA agents, smart test-selection prototypes, release-risk visibility systems, CI-integrated reporting, and automation workflows that reduce manual validation effort and improve production readiness.

Hands-on experience with Playwright, WebDriverIO, Appium, BrowserStack, TestMu, GitHub Actions, Codecov, Istanbul coverage reporting, and Claude-assisted development workflows. Skilled at translating complex product and engineering requirements into scalable automation architecture, selective regression strategies, and actionable release-quality metrics.

I work closely with Engineering, DevOps, Core Engineering, Product, and QA teams to modernize test infrastructure, improve release confidence, and build practical AI-enabled systems that make quality faster, more measurable, and more reliable.

EXPERIENCE

POLYCAM

Senior QA Automation Engineer 2024 – 2026

- Built and scaled automation frameworks for web, mobile web, iOS, and Android using WebDriverIO, Playwright, Appium, BrowserStack, TestMu, and GitHub Actions.
- Led modernization of legacy WebDriverIO automation into Playwright workflows optimized for AI-assisted development and Claude agent collaboration.
- Designed dynamic automation architecture supporting staging, production-safe execution, feature environments, cloud execution, and parallel cross-browser/mobile testing.
- Built CI/CD automation pipelines integrating TestMo, Codecov, Istanbul coverage reporting, GitHub Actions, and centralized QA visibility workflows.
- Helped drive bi-weekly production release validation, including smoke testing, regression analysis, QA sign-off reporting, and release-risk assessment.
- Developed reusable Page Object Model (POM) frameworks and trained QA engineers on scalable automation design, WebDriverIO best practices, and maintainable test architecture.
- Created internal QA and AI enablement guides covering AI-agent workflows, prompt engineering best practices, automation standards, onboarding, and contributor workflows.
- Applied black-box, gray-box, and white-box testing methodologies across manual and automated testing for frontend, backend, RBAC, billing, subscription, and release-critical workflows.
- Built AI-assisted Smart Test Picker prototypes for intelligent test selection, Git-diff analysis, runtime optimization, and selective regression execution.
- Developed reusable automation utilities for shadow DOM handling, MailSlurp email testing, dynamic user assignment, environment-aware execution, and resilient UI interaction patterns.
- Develop Agent to validate Android and iOS mobile automation workflows on physical cloud devices using TestMu/LambdaTest, Appium, Espresso, and XCUITest.
- Improved automation observability through centralized execution reporting, runtime metrics, coverage visibility, and automated release reporting workflows.
- Reduced manual regression effort through scalable automation strategies, selective execution pipelines, and cross-platform test orchestration.
- Partnered closely with Engineering, Core Engineering, DevOps, and Product teams to troubleshoot release blockers, validate production-critical flows, and improve release confidence.

SKILLS

Automation

WebDriverIO (WDIO), Playwright, Appium, Selenium, XCUITest, Espresso, Page Object Model (POM), Cross-Browser Testing, Mobile Automation, API Testing, End-to-End (E2E) Testing, Smoke & Regression Testing

Languages

JavaScript, TypeScript, Java, SQL, Bash/Shell Scripting

CI/CD & Reporting

GitHub Actions, CI/CD Pipelines, Codecov, Istanbul, TestMo, JUnit Reporting, Allure Reporting, Release Validation Workflows, QA Metrics & Reporting

Cloud & Infrastructure

BrowserStack, TestMu/LambdaTest, Docker, Firebase, Cloud Device Testing, Parallel Test Execution, Dynamic Environment Configuration

Tools & Platforms

Postman, Jira, Linear, TestRail, Testim, MailSlurp, Git, GitHub, Xcode, Android Studio, Chrome DevTools, Stripe, Amplitude, Statsig

AI / Agentic QA

AI-Assisted Test Selection, Intelligent Regression Execution, Release-Risk Analysis, AI-Agent Workflows, Self-Healing Automation Concepts, Prompt Engineering, Automation Optimization

Testing Methodologies

Black-Box Testing, Gray-Box Testing, White-Box Testing, Exploratory Testing, Risk-Based Testing, Release Validation, Cross-Platform Testing

QA Leadership & Operations

Automation Architecture, QA Strategy, Release Management Support, Test Planning, Defect Triage, QA Documentation, Team Enablement, Workflow Standardization, Production Readiness Validation

CERTIFICATIONS & TRAINING

Certifications & Training

- DeepLearning.AI / Stanford (Coursera) — Machine Learning Specialization
- Udemy — Selenium WebDriverIO, Appium, Cypress, TypeScript, Node.js, Python Automation
- LinkedIn Learning — Android Espresso, Automated Testing in Xcode, REST API Testing & Validation
- AR/VR Development Techniques — 3-course specialization series

EXPERIENCE

Kunai

QA Automation Engineer 2023- 2024

- Designed, developed, and maintained scalable software test automation frameworks and reusable test scripts primarily using Java.
- Developed and executed automated tests for backend integrations, APIs, and end-to-end workflows across web and enterprise systems.
- Collaborated with developers and QA engineers to define automation requirements, test coverage, and validation strategies.
- Collaborated closely with engineering and product teams, including direct work with Wex, on virtual corporate card (VCC) systems and employee Visa card workflows.
- Created, executed, and maintained automated test cases while analyzing results to identify defects, regressions, and performance issues.
- Identified opportunities to improve QA processes and implemented scalable automation and testing solutions.
- Troubleshoot and resolved issues related to automation infrastructure, CI/CD pipelines, cloud execution environments, and test reliability.
- Documented automation frameworks, testing workflows, and QA best practices to support team adoption, onboarding, and process consistency.

SUPERWORLD

Senior QA Automation Engineer 2020 - 2023

- QA Engineer for an augmented reality (AR) virtual world app, responsible for testing and ensuring quality of the app's functionalities.
- Configured test environments for AR mobile app, VR real estate, and NFT marketplace on desktop, iOS, and Android.
- Conducted testing of 3D AR assets using Unity 3D and AltTester with C#, and executed test cases using Cypress, Browserstack, and Appium for Real Estate and NFT marketplace features.
- Utilized TestRail and JIRA for test case management, bug tracking, and project monitoring.
- Troubleshoot test failures to identify root causes, implemented necessary fixes, and demonstrated attention to detail, technical proficiency, and effective teamwork throughout the projects.