

# ERIK J. TREVINO

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## PROFILE

Creator of behavioral contract testing for AI-powered applications. Senior SDET and platform builder with 20+ years in software engineering. I build the testing tools that don't exist yet — including custom Playwright matchers that validate non-deterministic AI outputs in CI against live endpoints, a spec-driven test engineering pipeline, and a full-stack test management platform.

Speaker on AI-native test engineering, flaky test elimination, and CI/CD optimization. Builder of platforms at every scale — from QA departments built from zero, to enterprise test frameworks adopted across 18-repository platforms, to a K-12 LMS serving 22,000+ students.

## SIGNATURE WORK

### THE DIRECTIVE PLATFORM

- SECUR-T — First Playwright-native behavioral contract testing framework. 8 custom matchers, 118 tests against live AI endpoints, 25-prompt OWASP-aligned adversarial suite.
- CurioEVE — AI-powered CLI (60+ commands). Spec generation, code generation, anti-pattern detection, sprint scoring.
- M-O — Full-stack test management platform (Go/React). 950+ tests, flaky detection, error clustering, Slack/GitHub/Jira integrations. Built in ~3 days.
- Closed-loop pipeline: Ticket → spec → test → CI → results → gap analysis → next sprint.

### 48 NAMED ENGINEERING PATTERNS

Documented 48 original, pattern-named methodologies in 11 weeks: Zero Trust for AI, The Testing Trophy Gap, 680-Run Stress Validation, The Fluff Audit, Brain-Body Testing Separation, Predictive Hardening, and more.

## SPEAKING

- Zero Trust for AI: Behavioral Contracts for the AI Era — Keynote, 40-45 min
- The Brain vs. The Body: AI Evaluation and AI Testing Are Different Problems — Breakout, 35 min
- 680 Runs, Zero Retries: Statistical Confidence in Test Engineering — Breakout, 30 min
- CI/CD Is Lying to You: 8 Pipeline Failures Nobody Noticed — Breakout, 35 min
- Your AI Wrote the Code, But Who Audited the Dependencies? — Breakout, 30 min

## PROJECTS

### ECHO REBORN — K-12 LEARNING MANAGEMENT SYSTEM

Full LMS serving 63 schools and 22,000+ students, built in ~100 days. Multi-outcome assessment (no commercial LMS supports this). Next.js 16, React 19, Supabase, FERPA-compliant. 549 commits, ~142,000 lines.

### CASIANAAI — AI-NATIVE TEST INTELLIGENCE PLATFORM

AI-powered test generation, maintenance, and healing. NLP to test scenarios (70% automation), intelligent model routing (60% cost reduction), self-healing (60% recovery), predictive failure prevention (90% accuracy). 9,000+ lines TypeScript. Named after my daughter.

## PROFESSIONAL EXPERIENCE

**SpyCloud — Cybersecurity** | *Senior SDET* | January 2026 – Present

- Built enterprise Playwright framework from scratch → reference implementation for 18-repo platform. 8 weeks: ~40 PRs, 227+ tests, 9+ production bugs (incl. critical CVE), 90+ documents, 7 CI/CD improvements (95% faster).
- Created the Directive Platform (behavioral contracts + spec-driven pipeline + test management).
- Pioneered AI-augmented engineering: parallel agent orchestration with quality gates on all output.

**Live Nation Entertainment** | *Quality Engineer* | May 2022 – October 2025

- Built AI investigation platform (Claude, GPT-4, Codex). 75-85% analysis time reduction, 20+ hours/week saved.
- Discovered fraud bug affecting 27.5% of transactions → prevented \M+ annual exposure.
- Playwright infrastructure: 2,000+ tests, 4 apps, 30+ environments, 99.5% CI success rate.

**Q2 Software — Digital Banking** | *Senior QE Lead* | January 2019 – May 2022

- Led 15-person distributed team. 12 financial institutions. Zero critical production issues. 100% SOX/SEC compliance.
- Coverage 20% → 85% (400% increase). Pioneered SAFe implementation.

**iFLY Indoor Skydiving** | *Software Quality Engineer* | March 2015 – December 2018

- Built QA department 0→3. First automation framework. 60% manual effort reduction.

**University of Arizona** | *Systems Administrator* | 2013 – 2015

**Pima County Government** | *IT Application Analyst* | 2005 – 2012

- Led 5-year COBOL mainframe modernization. 1M+ property records.

## TECHNICAL EXPERTISE

- Test Automation: Playwright (expert, 2,000+ tests), Cypress, Jest/Vitest, Selenium (10+ yrs), Pytest, Appium
- Languages: TypeScript, Python (10+ yrs), Go, Node.js, JavaScript, C#, SQL
- AI/ML: Claude API, GPT-4, TensorFlow.js, HuggingFace, FAISS, Cursor, GitHub Copilot
- Full-Stack: React 19, Next.js 16, Go/Gin, FastAPI, Supabase, PostgreSQL
- DevOps: AWS, Vercel, Cloudflare, GitHub Actions, Docker, Kubernetes, Terraform
- Security: CVE discovery, supply-chain hardening, Snyk SAST/SCA, FERPA, SOX/SEC, WCAG 2.1 AA

## EDUCATION

B.S. Business Administration, IT Management — Western Governors University

B.S. Mechanical Engineering — University of Arizona

## CERTIFICATIONS

- SAFe/Agile Certified (Scrum Master)
- AWS Level 300: Building and Operating AI Agents on AWS (2026)

## ONLINE PRESENCE

- erikrevino.ai — Personal brand & blog
- casiana.ai — Echo Reborn LMS (live)

- [behavioralcontract.com](http://behavioralcontract.com) — Behavioral contract testing methodology
- [youtube.com/@eriktrevinoai](https://youtube.com/@eriktrevinoai) — YouTube channel
- [linkedin.com/in/erik-trevino](https://linkedin.com/in/erik-trevino)