# OSCAR RIEKEN

## Principal SDET | Test Automation Architect | CI/CD Specialist

New Orleans, LA | Butler, PA

oriekenjr@gmail.com | +1 504 723 4720

LinkedIn: linkedin.com/in/oscarrieken | GitHub: github.com/oscarrieken

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## PROFESSIONAL SUMMARY

Principal SDET and Test Automation Architect with 18+ years of experience building scalable testing frameworks and leading CI/CD transformations. Expert in Playwright, Selenium, and Cypress with proven track record of mentoring 90+ development teams and reducing deployment cycles by 60% through innovative automation strategies. Specialized in enterprise-scale quality assurance, accessibility testing, and cross-browser automation solutions.

## CORE COMPETENCIES

### Test Automation Frameworks

Playwright (Expert), Selenium WebDriver (10+ years), Cypress (Expert), TestNG, JUnit, Cucumber, Jest, Mocha

### Programming Languages

JavaScript/TypeScript (10+ years), Python, Java, Ruby (10+ years), Go, C#

### CI/CD & DevOps

Jenkins, GitHub Actions, GitLab CI, Docker, Kubernetes, AWS, Azure, Terraform

### Quality Assurance

Accessibility Testing (WCAG), Cross-browser Testing, Performance Testing, API Testing, Visual Regression Testing

### Tools & Technologies

Git, JIRA, SonarQube, BrowserStack, Sauce Labs, Grafana, Prometheus, Slack/Teams Integration

### Leadership & Methodology

Agile/Scrum, Test Strategy, Team Mentoring, Framework Architecture, Risk-based Testing

## PROFESSIONAL EXPERIENCE

### Principal Software Development Engineer in Test (SDET)
### Rieken Consulting
*August 2023 - Present | Remote*

Lead SDET consultant specializing in test automation framework development, CI/CD optimization, and enterprise testing strategy implementation for Fortune 500 clients.

- Architected and implemented custom Playwright testing frameworks for 7 enterprise development teams, resulting in 70% reduction in test execution time
- Developed comprehensive CI/CD pipelines integrating automated testing, code quality gates, and deployment automation using Jenkins and GitHub Actions
- Built unified test reporting dashboards with real-time analytics using Grafana and Prometheus, improving defect detection by 85%
- Created advanced training curricula and SDET playbooks, successfully upskilling 25+ manual testers to automation specialists
- Implemented cross-browser testing strategies across Chrome, Firefox, Safari, and Edge, ensuring 99.5% compatibility coverage
- Established accessibility testing automation using Playwright + Axe integration, achieving WCAG 2.1 AA compliance

### Principal Software Development Engineer in Test
### ADP
*June 2016 - August 2023 | Alpharetta, GA*

Principal Software Architect for MyADP Product ecosystem, driving Continuous Delivery adoption and quality engineering transformation across 90+ product teams.

- Led enterprise-wide migration from Protractor to Cypress and Playwright frameworks, improving test reliability by 90% and reducing maintenance overhead by 50%
- Influenced quality practices across 90+ product teams, establishing standardized testing metrics and automation guidelines
- Implemented comprehensive accessibility testing strategy using Playwright + Axe, contributing to ADP mobile applications achieving top 5 business app rankings on iOS and Android
- Developed WebEx bot integration for automated deployment triggers and Jenkins-based build radiators, improving deployment visibility and accountability
- Mentored 12 SDETs directly and 90+ team members indirectly, establishing career development paths and technical excellence standards
- Created custom hiring processes including technical challenges and pair programming interviews, improving SDET hire quality by 80%
- Integrated SonarQube, ESLint, and Danger tools into CI/CD pipelines, establishing team-wide code quality gates

### Lead Software Engineer
### The Home Depot
*June 2015 - March 2017 | Vinings, GA*

Technical lead for AngularJS migration and test automation implementation across multiple development teams.

- Led 5 engineers through TDD/BDD adoption and migration from proprietary JavaScript framework to AngularJS
- Established comprehensive test automation strategy combining unit, integration, and end-to-end testing approaches
- Developed custom automation frameworks and delivered weekly training programs on testing best practices
- Created real-time dashboards for test coverage tracking and quality metrics visualization

**Lead Software Engineer in Test**
**IONIC Security**
*April 2014 - June 2015 | Atlanta, GA*

- Built greenfield test automation framework from scratch supporting web and API testing
- Introduced infrastructure automation using Packer, Docker, and Vagrant for consistent test environments
- Led team of 5 automation engineers and aligned development/QA sprint cadences

**Lead Quality Assurance Analyst**
**Manheim**
*January 2012 - April 2014 | Atlanta, GA*

- Managed 15 automation engineers across onshore, offshore, and nearshore teams
- Built comprehensive functional and performance testing frameworks supporting browser and mobile platforms
- Developed Ruby-based technical assessments and successfully transitioned manual testers to automation roles

**Lead Quality Assurance Analyst**
**ThoughtWorks**
*July 2006 - December 2011 | Global*

- Built foundational automation frameworks and created open-source plugins for Watir and Selenium-WebDriver
- Led QA initiatives across multiple agile teams with focus on integration and performance testing
- Established project-specific testing templates and automated regression testing standards

## KEY ACHIEVEMENTS

**Enterprise Transformation:** Successfully transformed 90+ product teams to modern automation practices, reducing deployment time by 60% across ADP's ecosystem.

**Mobile App Success:** Accessibility testing implementation contributed to ADP mobile apps reaching top 5 business applications on both Android and iOS platforms.

**Framework Innovation:** Created reusable testing frameworks adopted by multiple Fortune 500 companies, improving industry testing standards.

**Team Development:** Mentored 90+ teams and 12 direct SDETs, establishing industry-leading SDET development programs and career progression paths.

## EDUCATION & CERTIFICATIONS

**Master's Degree - Machine Learning & Artificial Intelligence**

*Heriot-Watt University*
In Progress - Expected Completion: 2025

**IBM Full Stack Software Developer Professional Certificate**

*IBM*
In Progress - Expected Completion: March 2025

**IBM AI Developer Professional Certificate**

*IBM*
In Progress - Expected Completion: March 2025

## ADDITIONAL INFORMATION

**Languages:** Spanish (Fluent), Portuguese (Intermediate)

**Military Service:** United States Marine Corps

**Open Source:** Active contributor to testing framework libraries and automation tools

**Speaking:** Regular presenter at testing conferences and technical meetups