Oscar Rieken

Principal SDET | AI/ML Integration Specialist | Automation Architect

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PROFESSIONAL SUMMARY

Principal SDET and Automation Architect with 18+ years of experience revolutionizing software quality through innovative AI/ML integration and advanced automation frameworks. Currently pioneering next-generation testing solutions by combining machine learning with traditional SDET practices, creating intelligent dashboards that provide real-time insights and predictive analytics. Proven track record of mentoring 90+ product teams, leading enterprise-scale automation transformations, and building scalable CI/CD pipelines that accelerate delivery while maintaining exceptional quality standards.

18+	90+	12	99.5%
Years Experience	Teams Mentored	SDETs Led	Framework Reliability

PROFESSIONAL EXPERIENCE

Principal SDET

Rieken Consulting

August 2023 - Present | Remote

Leading AI/ML integration initiatives for modern testing frameworks, developing bespoke automation solutions with intelligent analytics.

Technologies: RAG Models, GPT Integration, Playwright, Grafana, Prometheus

- Architected ML-powered testing platform with intelligent failure prediction
- Built unified dashboards integrating Prometheus, Ollama, and MS Teams bots
- Mentored 7 development teams and 4 SDETs in advanced automation strategies
- Created comprehensive SDET playbook and onboarding curriculum

Principal SDET

ADP

June 2016 - August 2023 | Alpharetta, GA

Principal Software Architect for MyADP Product ecosystem, driving Continuous Delivery adoption across 90+ teams.

TECHNICAL EXPERTISE

Programming Languages

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

Testing & Automation

Playwright, Cypress, Selenium *(10+ years)*, WebDriver, Cucumber, TestNG, API Testing

CI/CD & DevOps

Jenkins, GitHub Actions, Docker, Kubernetes, GitLab CI, CircleCI, SonarQube

AI/ML & Analytics

RAG Models, GPT Integration, Prometheus, Grafana, Ollama, TensorFlow, Machine Learning

KEY ACHIEVEMENTS

Enterprise Transformation

Led 90+ product teams through automation transformation, reducing deployment time by 60% and establishing quality standards.

AI-Powered Innovation

Pioneered ML-driven test analytics with RAG models and GPT integration for intelligent failure prediction.

Technologies: Cypress, Playwright, Jenkins, SonarQube, Axe

- Influenced 90+ product teams and mentored 12 SDETs directly
- Led Protractor → Cypress/Playwright migration enterprise-wide
- Implemented accessibility testing contributing to top 5 app store rankings
- Developed WebEx bots for automated deployment workflows

Framework Migration

Successfully orchestrated enterprise-wide migration from Protractor to Cypress/Playwright with zero downtime.

Accessibility Champion

Integrated automated accessibility testing contributing to mobile apps reaching top 5 business applications.

EDUCATION & CERTIFICATIONS

Master's Degree - Machine Learning & AI
Heriot-Watt University
In Progress - Expected 2025

IBM Full Stack Software Developer
IBM Professional Certificate
In Progress - March 2025

IBM AI Developer
IBM Professional Certificate
In Progress - March 2025

Lead Software Engineer
The Home Depot

June 2015 - March 2017 | Vinings, GA

Technologies: AngularJS, TDD/BDD, CI/CD, JavaScript

- Mentored 5 engineers in automation excellence and clean coding practices
- Created strategic automation blueprint for incremental delivery
- Delivered comprehensive dashboards for test coverage tracking

Lead SDET
IONIC Security

April 2014 - June 2015 | Atlanta, GA

Technologies: Docker, Vagrant, Packer, Automation

- Built comprehensive automation framework from ground up
- Introduced deployment automation and infrastructure monitoring

ADDITIONAL INFORMATION

Languages

Spanish (Fluent)
Portuguese (Intermediate)

Military Service

United States Marine Corps

Lead QA Analyst
Manheim

January 2012 - April 2014 | Atlanta, GA

Technologies: Ruby, Selenium, Mobile Testing, Performance

- Managed 15 automation engineers across onshore/offshore teams
- Built functional and performance frameworks for browser and mobile

Lead QA Analyst
ThoughtWorks

July 2006 - December 2011 | Global

Technologies: Watir, Selenium, Ruby, Open Source

- Created foundational automation frameworks and reusable plugins

- Led QA initiatives across multiple agile teams globally

Core Philosophy

"Being a hyperglot allows me to use the right tool for the right job. Great leaders stay in the trenches with emerging tech and help solve the big problems."