Oscar Rieken

Principal AI Engineer │ ML Solutions Architect │ Automation Specialist

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PROFESSIONAL SUMMARY

Principal AI Engineer and ML Solutions 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.

KEY PERFORMANCE METRICS

95% ML Model Accuracy	**40%** CI/CD Speed Increase
7 Teams Mentored	**18+** Years Experience

PROFESSIONAL EXPERIENCE

Principal AI Engineer & Consultant
Rieken Consulting

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August 2023 - Present
Remote
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AI Engineer and ML Solutions Architect specializing in intelligent automation systems and production ML deployments. Expert in building end-to-end AI pipelines from research to production, with focus on RAG models, GPT integration, and MLOps best practices.

▸ Architected ML-powered testing platform with RAG model integration for intelligent test failure analysis
▸ Built custom AI frameworks for automated root cause analysis and predictive maintenance
▸ Developed unified monitoring dashboards integrating AI insights with traditional DevOps metrics
▸ Led AI adoption initiatives across 7 development teams with 85% success rate
▸ Created SDET-to-AI transition playbook and comprehensive training curriculum

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Previous Leadership Positions

Principal SDET	ADP (2016-2023)
Lead Software Engineer	The Home Depot (2015-2017)
Lead Software Engineer in Test	IONIC Security (2014-2015)
Lead QA Analyst	Manheim (2012-2014)
Lead QA Analyst	ThoughtWorks (2006-2011)

Progressive career advancement from foundational automation frameworks to enterprise-scale AI/ML integration. Consistently led technology transformations, mentored development teams, and established industry best practices across Fortune 500 companies.

TECHNICAL EXPERTISE

🤖 Machine Learning

Python	Expert (10+ years)
TensorFlow	Advanced
PyTorch	Advanced
Scikit-learn	Expert

🧠 NLP & LLMs

RAG Models	Expert
GPT Integration	Advanced
Transformers	Advanced
Langchain	Proficient

⚙️ MLOps & DevOps

Docker/Kubernetes	Expert
MLflow	Advanced
Jenkins CI/CD	Expert
Prometheus/Grafana	Advanced

📊 Data Science

Pandas/NumPy	Expert
Jupyter	Expert
Apache Airflow	Advanced
Model Monitoring	Advanced

AI SOLUTIONS PORTFOLIO

🤖 AI-Powered Test Analytics Platform

Architected ML-powered testing platform with RAG model integration for intelligent test failure analysis. Built custom framework delivering real-time predictive analytics and automated root cause analysis.

`Python` `RAG Models` `TensorFlow` `Playwright` `Grafana`

🧠 RAG Model Integration System

Developed unified monitoring dashboards integrating AI insights with traditional DevOps metrics. Created intelligent Jira automation and MS Teams bots for seamless CI/CD communication.

`RAG` `Vector DB` `Langchain` `Prometheus` `Docker`

⚡ Intelligent Automation Framework

Led AI adoption initiatives across 7 development teams with 85% success rate. Built SDET-to-AI transition playbook and comprehensive training curriculum.

`ML Pipelines` `Automation` `Jenkins` `Kubernetes` `GPT`

EDUCATION & CERTIFICATIONS

Master's Degree - Machine Learning & Artificial Intelligence
Heriot-Watt University

In Progress - Expected Completion: 2025

IBM AI Developer Professional Certificate
IBM

In Progress - Expected Completion: March 2025

IBM Full Stack Developer Professional Certificate
IBM

In Progress - Expected Completion: March 2025

ADDITIONAL INFORMATION

Languages:
Spanish (Fluent), Portuguese
(Intermediate)

Military Service:
United States Marine Corps

Core Philosophy:
"Great leaders stay in the trenches
with emerging tech"