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Paul (Pavel) Kirkovsky

QA Lead | SDET | Automation Architect

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US Citizen | Work preference: remote-first, async collaboration, outcome-driven

Professional Summary

QA automation specialist building modern test frameworks with Playwright, Cypress, and AI-enhanced workflows. Currently implementing LLM-assisted testing and architecting scalable CI/CD-integrated test suites for continuous testing that significantly reduce regression time and deployment defects. Proven expertise leading QA teams and delivering enterprise-grade solutions across e-commerce, healthcare, autonomous vehicles, IoT, and cloud platforms.

Core Competencies: Web & Mobile Test Automation, API Testing, CI/CD Integration, AI-Assisted Testing, Cloud Testing, Performance & Load Testing at Scale, Network Protocol Analysis & Reverse Engineering, Test Strategy & Leadership

Professional Experience

trac8 | IoT Engineer/Lead SDET | Remote | Jun 2025 – Present

- SNMP collector, IoT sensor dashboards
- Building production-ready test automation using Playwright, pytest, and API testing tools
- Integrating automated test suites into CI/CD pipelines using Gitlab
- Developing no-code/low-code automation solutions using n8n
- Authoring technical documents, test strategy documentation, test plans, and QA playbooks to establish quality standards

CareOregon | Data Pipeline Quality Engineer | Remote | Mar 2024 – Jun 2025

- Implemented RPA solutions using Microsoft Power Automate, Tricentis Tosca, AutoIt, Robot Framework, for repetitive validation tasks on web and desktop applications
- Automated ETL/ELT testing across Azure Data Factory, Databricks, and Snowflake, reducing data pipeline defects by 40% through comprehensive validation frameworks
- Spearheaded on-premises AI initiative for SQL validation using open-source LLMs, proposing automated query verification to reduce testing cycles
- Built Playwright automation for QNXT workflows and internal healthcare tools covering 15+ critical workflows, eliminating 20+ hours/week of manual testing
- Integrated test suites into Azure DevOps CI/CD pipelines for mobile and web applications
- HIPAA compliance, patient data review, Edifecs (Cotiviti), HL7, FHIR, DICOM, X12 EDI, EDI formats
- ServiceNow, Oracle PeopleSoft, Microsoft Dynamics ERP

Updater / MoveHQ | Lead SDET | Remote | Mar 2023 – Jul 2023

- Led SDET team in building comprehensive E2E automation using Cypress and Playwright, increasing regression coverage by 60% and reducing release delays by 40%
- Architected CI/CD testing pipelines with Okta authentication integration, eliminating 25+ engineering hours per sprint of manual testing
- Partnered with security and compliance teams to deliver FedRAMP-compliant features, ensuring government-grade security standards
- Established quality metrics and defect analytics, improving pre-production defect detection rate by 35%

Noom | SDET | Remote, New York | Aug 2021 – Jan 2023

- Achieved 100% automation coverage for critical user flows using Playwright & Cypress, cutting regression cycles by 50%
- Built API test automation using Postman/Newman for payment processing with Stripe and Braintree and internal APIs, enabling continuous testing with full CI/CD integration
- Developed custom QA dashboards for test observability and Jira integrations exposing defect trends, test coverage metrics, and release readiness indicators, providing real-time visibility to 100+ stakeholders and reducing reporting overhead by 20 hours per week
- Collaborated with cross-functional teams to resolve P0/P1 issues within 72-hour SLAs

Amazon | QA Lead / SDET | Seattle, WA | May 2017 – May 2020

- Led quality engineering for Amazon Prime Now and Amazon Fresh launches, managing 20-member offshore QA team through hands-on mentorship, bug triage, test execution training, and comprehensive test documentation
- Built scalable automation frameworks for UI, API, microservices, and performance testing integrated with CI/CD pipelines, enabling shift-left testing practices and reducing regression time by 50%
- Embedded WCAG accessibility and OWASP security standards into automated testing workflows
- Created standardized QA documentation and tooling, reducing engineer onboarding time by 30%
- Full-stack testing, from app to warehouse. Frontend, backend, middleware, warehouse management system (WMS), etc.

Sharp Laboratories | SDET (Contract) | Camas, WA | May 2016 – Mar 2017

- Developed automated test suites for desktop application, API, video streaming, and sensor data validation
- Authored test plans, cases, root cause analysis documentation
- AutoIt/Robot Framework/PyAutoGUI
- Progressively increased regression test coverage using automation tools while performing manual regression
- Built custom Wireshark dissectors for proprietary protocols, enabling rapid network traffic analysis and root cause identification for autonomous vehicle systems
- Performed deep-dive network analysis using Wireshark and tcpdump to troubleshoot device communications
- Reverse-engineered and documented autonomous vehicle firmware recovery processes through hardware/software analysis, reducing critical downtime from one week to two hours
- Created PowerShell automation reducing test execution time by 30%
- Extended documentation coverage

Elemental Technologies (AWS Elemental) | Senior QA Engineer (Contract) | Portland, OR | Sep 2015 – Feb 2016

- Extended automation coverage for multi-device video streaming platforms, improving test reliability across diverse device configurations
- Optimized device provisioning and cluster testing workflows

eBay | Lead QA Engineer | Portland, OR | May 2012 – Feb 2015

- Directed QA for RedLaser Android app (23M+ downloads), implementing hardware test harnesses to accelerate mobile regression testing
- Built geo-aware barcode scanning test frameworks supporting next-generation commerce features

Intel | SDET (Contract) | Hillsboro, OR | Jan 2011 – Mar 2012

- Authored developer documentation for x86 Android Emulator kernel module (Intel HAXM)
 - Developed automated test suites for Android emulator adopted by 1M+ Android developers worldwide
 - Extended Google CTS framework for hardware-accelerated testing
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Technical Skills

Modern Test Automation: Playwright, Cypress, Appium, Selenium, WebDriverIO, TestCafe, Puppeteer, Postman/Newman, Jest, pytest, REST Assured, Cucumber/BDD, Behave, SpecFlow, XCTest, Espresso, Detox, Maestro, Percy, Tricentis Tosca

AI & Automation Platforms: Claude, OpenAI, Google Gemini, Mistral, Cursor, GitHub Copilot, LM Studio, LLaMA, n8n, UIPath, Zapier, Microsoft Power Automate

Programming & Scripting: TypeScript/JavaScript, Python, SQL, Bash, PowerShell, Ruby

Operating Systems: Linux, macOS, Windows, iOS, Android, Unix

CI/CD & DevOps: GitHub Actions, Azure DevOps, AWS CodePipeline, Jenkins, CircleCI, GitLab CI, Bitbucket Pipelines, Travis CI, Bamboo, Docker, Terraform, Ansible

Cloud & Data Platforms: Azure (Data Factory, Databricks), Snowflake, AWS

Performance & Load Testing: JMeter, Gatling, k6, Locust, LoadRunner

Collaboration & Project Management: Jira, Confluence, Slack, Notion, Microsoft Teams, Zoom, Linear, ClickUp, Airtable, Trello, Asana, Figma, SharePoint, ServiceNow, Oracle PeopleSoft, Microsoft Dynamics ERP

Development & Test Management Tools: VS Code, Visual Studio, GitHub, GitLab, Azure Repos, Bitbucket, TestRail, qTest, Zephyr, Xray

Quality Standards: WCAG Accessibility, OWASP Security, BDD/TDD, Test Strategy, FedRAMP Compliance