# Paul Kirkovsky

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Versatile automation engineer/SDET with a focus on process optimization. Broad industry experience including e-commerce, mobile, healthcare, biotech, streaming video, and autonomous vehicles.

## CORE COMPETENCIES

Test strategy | Test automation | Tool Development | Process optimization | Documentation | Accessibility Testing | Security Testing | Deep-dive root cause analysis | Hardware | IoT devices | Networking | Technical writing

## EXPERIENCE

**CareOregon**                                                                                                          **Remote (USA)**
**Data Pipeline Quality Engineer**                                                                    *Mar 2024 - Present*
- Automation, observability/reporting, and error handling for ETL/ELT processes in Azure Data Factory
- Maintenance and validation of complex on-prem SQL jobs (MS SQL Server)

**Updater/MoveHQ**                                                                                                 **Remote (USA)**
**Lead Software Development Engineer in Test**                                          *Mar 2023 - July 2023*
- Led team of SDETS, spearheaded CI/CD automation effort (E2E, UI, integration) using Cypress, ensuring service members have a seamless and stress-free full-service relocation experience
- Established standards for quality, engaged with all stakeholders to to close the loop on quality and ensure requirements were consistent with customer needs (FedRAMP compliant, multi-company project)

**Noom**                                                                                                                     **Remote (USA)**
**Software Development Engineer in Test**                                                    *Aug 2021 - Jan 2023*
- Maintained 100% automated test coverage for critical business flows using Cypress, Postman/Newman
- Interfaced with customer support team daily, resolving high-severity customer issues with a 3-day SLA
- Standardized documentation & automated QA reporting across the company, adopted by 90% of teams
- Built custom integration for QA tools, reducing manual work by 50%, saving 4 days per month
- Actively contributed PRs for bug fixes, localization, UI changes, reducing dev workload 10% every sprint
- Designed & executed complex payment test scenarios (Stripe, Braintree, Apple Pay)

**Amazon**                                                                                                                  **Seattle, WA**
**QA Lead/Software Development Engineer in Test**                                    *May 2017 – May 2020*
- Led QA effort launching Amazon Prime Now and Amazon Fresh, allowing millions of customers to receive 2-hour product delivery & fresh groceries
- Managed & guided 20-member offshore QA team, triaged tickets & performed root cause analysis
- Developed automated UI, API, load, and performance tests on Amazon Pipelines (aka AWS CodePipeline)
- Led testing efforts in accordance with WCAG standards to identify & verify accessibility compliance
- Led security testing efforts in accordance with OWASP guidelines to ensure product security
- Standardized documentation of team processes, tooling, and runbooks to eliminate churn & improve response time

**Sharp Laboratories**                                                                                              **Camas, WA**
**Software Development Engineer in Test** (Contract)                                  *May 2016 – Mar 2017*
- Led in-house firmware recovery project, decreasing autonomous vehicle downtime from 1 week to 2 hours

- Created software installation scripts using Powershell, reducing test cycle time by 30%
- Developed automated test suites for validating streaming video, thermal camera, and chemical sensor data
- Developed custom Wireshark protocol dissectors using Lua

**Elemental Technologies (now AWS Elemental)**                                    **Portland, OR**
**Senior Quality Assurance Engineer** (Contract)                                   *Sep 2015 – Feb 2016*
- Maintained and extended test suite for validation of clustering & video encoding
- Created automation for device provisioning & clustering functionality, reducing cycle time by 50%
- Validated multi-device video transcoding & streaming output, from desktop to mobile

**eBay**                                                                           **Portland, OR**
**Lead Quality Assurance Engineer**                                                *May 2012 – Feb 2015*
- Oversaw RedLaser for Android, a barcode scanning & geo-aware shopping app for testing new technologies
- Coauthored an automated hardware test harness for barcode scanning, speeding up QA cycle time by 30%

**Intel**                                                                          **Hillsboro, OR**
**Software Development Engineer in Test** (Contract)                                *Jan 2011 – Mar 2012*
- Developed test suite for x86 Android emulator kernel module (HAXM), used by developers worldwide
- Extended test framework built around Google's Android Compatibility Test Suite (CTS)

**Anonymizer, Inc**                                                                **San Diego, CA**
**Quality Assurance Engineer** (Contract)                                          *May 2007 - Jul 2008*
- Pioneered usage of VMWare, significantly improving testing approach & cycle time

**ChemDiv, Inc**                                                                   **San Diego, CA**
**System Administrator**                                                           *Jan 2006 - May 2007*
- Sole sysadmin for a small biotech office
- Saved $24,000 in annual costs by modernizing legacy analog PBX to an Asterisk-based VoIP system

**Sanford-Burnham Medical Research Institute**                                     **San Diego, CA**
**Perl Developer** (Intern)                                                        *Jul 2005 - Jan 2006*
- Maintained CutDB, a bioinformatics tool used in numerous biological research projects

## TOOLS/SKILLS

- Python, Javascript/Typescript, Bash, Ruby, Lua, shell scripting, SQL
- Automated CI/CD testing on web, mobile (native & hybrid), API (Cypress, Playwright, Appium, Selenium, Postman, Swagger, Cucumber, Jest, pytest, XCUITest, Espresso)
- Performance, stress, load, spike testing (JMeter, LoadRunner, Gatling, k6)
- GitHub Actions, Jenkins, CircleCI, Travis CI, Azure DevOps, other CI/CD tools
- Jira, Google Suite, Microsoft Office, Figma, TestRail, qTest, Bugzilla
- Mixpanel, FullStory, Datadog, BrowserStack, BitRise
- Charles Proxy, Wireshark, tcpdump, Burp Suite, HTTPie, mitmproxy, Postman, Newman, Insomnia, REST Assured, SoapUI, Metasploit