

Pavel Kirkovsky

Systems engineering, devops, security, & QA

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Summary

I enjoy solving complex and unusual problems with a multifaceted deep dive approach. Learning and teaching others is a lifelong passion, which lends itself to excellent writing and communication skills.

In my spare time I like to play vintage synthesizers & drum machines (Roland), build electronics projects, and pick locks.

Experience

QA Engineer II at Amazon

May 2017 - Present

Currently in the Prime Now/Amazon Fresh/F3 org: test strategy planning, new feature rollouts, test automation on browser & mobile, performance/load testing, security testing, and deep-dive manual testing.

Technologies utilized: Appium, Selenium, Java, Ruby, XCode, iOS Simulator, Android emulator, XCUITest, internal Amazon build tools

QA Engineer (Contract) at Sharp Electronics Corporation USA

May 2016 - March 2017 (11 months)

Worked on software & hardware testing for the Sharp Intellos A-UGV (Automated Unmanned Ground Vehicle) autonomous vehicle security platform. Testing specialization includes streaming audio/video, network traffic analysis, and complex deep-dive troubleshooting of the many interconnected systems within this platform.

Technologies utilized: Wireshark, JIRA, Zephyr, ONVIF compliance tools, H.264/MPEG-4 compliance tools, PowerShell, Windows, Linux

Information Security Consultant

February 2015 - May 2016 (1 year 4 months)

Provided security assessments, reviewed security policies, and implemented new infosec policies for clients. Advised clients on how to best leverage tools such as hardened Linux systems, VPN, encryption (PGP/GnuPG/TrueCrypt/etc), secure chat, Tor, anonymous email, etc.

Crafted educational materials and provide one-on-one instruction to clients on computer security concepts, best practices, threat assessment, usage guides for security tools, and other topics.

Deployed custom pfSense networking appliances at customer sites in order to provide personal VPN service and firewall functionality. Deploy Linux-based "personal cloud" solutions on VPS systems and commodity hardware.

Built wireless mesh networks and high-power wireless point-to-point links using open source software (OpenWRT).

Technologies utilized: pfSense, Wireshark, nmap, tcpdump, Kali Linux (and associated security tools), OpenWRT, PGP/GPG, Tails, Tor, TrueCrypt, OTR encryption, VPN (IPSec, OpenVPN), XMPP, FreeBSD, Linux, OS X, Windows

QA Engineer (Contract) at AWS Elemental, an Amazon Web Services Company

November 2015 - February 2016 (4 months)

Performed test automation research, test case refactoring, and manual testing on video streaming & encoding appliance products including Elemental Life, Elemental Server, and Elemental Conductor. Brought up appliance systems and VMs using Kickstart, configured test clusters for multi-product validation, and executed automated test suites against products & product clusters. Validated output artifacts (streaming & file-based video) using industry-standard tools for MPEG-DASH, Apple HLS, and Microsoft Smooth.

Technologies utilized: JIRA, TestRail, RedHat Enterprise Linux (RHEL), CentOS, kickstart system installation, IPMI, ffmpeg/ffplay, avidemux, VLC, Perl, Tektronix MTS4SA Transport Stream Compliance Analyzer, Manzanita Transport Stream Analyzer

QA Engineer at eBay Inc

August 2012 - February 2015 (2 years 7 months)

Part of the Innovation and New Ventures group at eBay, Inc: responsible for quality assurance, sustaining engineering, and project delivery of software projects ranging from web and services technology stacks, mobile apps on smartphones and wearable devices, and digital storefront/kiosk technology. Acted as a member of the internal QA team and tasked with testing & validating a variety of projects ranging from product improvements to in-development products & hackathon prototypes.

QA lead for RedLaser Android: Evaluated the application via manual and automated testing on a large collection of Android devices, performed release validation, wrote test cases and general test/environment documentation, and created custom testing tools. Also performed security &

privacy audits against the application and associated API, including: SSL/TLS validation, input fuzzing, data leakage, code injection, SQLi, and other security-related tests.

Technologies utilized: Testrail, JIRA, Charles Proxy, Wireshark, tcpdump, SoapUI, Ruby, shell scripting, Perl, Monkey/Monkeyrunner, Android SDK, Tizen SDK, Xcode, OS X, Windows, Linux, Kali Linux & associated security tools

QA Engineer (Contract) at Intel Corporation

February 2011 - August 2012 (1 year 7 months)

Part of the Android QA team at Intel's Open Source Technology Center (OTC), performing automated and manual testing and validation of Android x86 system images and Intel HAXM (a hypervisor addon for the Android emulator allowing Android x86 emulation to be accelerated using Intel VT).

Also responsible for the technical writing aspects of the project, including documentation for end-users, product release notes, product specs, flow/process diagrams, and internal technical documentation.

Previously: part of the MeeGo QA team as a Technical Lead, testing and debugging of MeeGo devices and software builds as well as general technical assistance/troubleshooting.

Technologies utilized: JIRA, Android SDK, GLBenchmark, Android Compatibility Test Suite, MeeGo SDK, Tizen SDK, Linux, Windows, OS X, Xcode, Python, Ruby, Perl, shell scripting, TestLink

IT Consultant

July 2008 - February 2011 (2 years 8 months)

Managed computer infrastructure on an ongoing and project basis for small to mid size businesses, including network equipment, routers, switches, firewalls, file servers, web servers, point of sale systems, and wireless network equipment.

Assessed infrastructure needs & risks, provided reports on infrastructure robustness and security, and implemented infrastructure improvements according to industry best practices.

Technologies utilized: Windows, Windows Server, Linux, Active Directory, hardware firewalls, routers, switches, wireless access points, wireless captive portals, Ethereal (Wireshark), nmap, ettercap, Kismet, BackTrack Linux, malware scanning tools

QA Engineer at Anonymizer, Inc.

May 2007 - July 2008 (1 year 3 months)

Performed testing, debugging, and regression checks for all software releases and service deployments.

Documented and tracked bugs using Bugzilla, tested changes on staging servers, and debugged issues. Created test plans and wrote new test cases using Testopia. Worked on bringing up VM repository, allowing rapid software testing on a variety of operating systems.

Technologies utilized: Bugzilla, Testopia, Linux, Windows, VMWare, Wireshark, tcpdump, VPN, shell scripting

Infrastructure Administrator at ChemDiv, Inc.

January 2006 - May 2007 (1 year 5 months)

Responsible for all aspects of IT infrastructure, from mission-critical services to desktop troubleshooting.

Maintained Windows DC servers, mail servers (Exchange/Kerio), backup system, firewall, network equipment, desktop computers, and computer-controlled laboratory equipment (GCMS/LCMS & NMR). Maintained contact & collaborative effort with overseas IT group (Russia-based main office) to resolve issues and coordinate new tasks. Deployed company-wide open source VoIP telephony system (Asterisk), vastly reducing communication costs between satellite offices and replacing old proprietary PBX system.

Technologies utilized: Windows Server, Active Directory, Windows, Linux, Unix (Sun Solaris, IRIX), Asterisk VoIP (Digium), Microsoft Exchange, Kerio Mail Server, Lotus Notes, Sonicwall, Dell managed switches, Wireshark/Ethereal, nmap, tcpdump, shell scripting, Perl

Perl Developer at Sanford-Burnham Institute for Medical Research

July 2005 - January 2006 (7 months)

Worked on code refactoring and optimization of the bioinformatics tool PMAP (pmap.burnham.org). This web application was developed using Perl (backend) and Javascript (frontend).

Technologies utilized: Javascript, Perl, Windows, Linux

IT Intern at Anadys Pharmaceuticals

June 2004 - August 2004 (3 months)

Worked under the lead sysadmin performing server maintenance, network upgrades (including patch panels & cabling), and performed end-user desktop support.

Technologies used: Windows Server, Active Directory, Linux, network tools, SSH