

# Pavel Kirkovsky

Seeking new opportunities! Experienced tech generalist drawing knowledge from IT, security, & QA fields.

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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. I'm just as comfortable managing server farms as I am writing documentation and leading workshops.

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## Experience

### **SQA Test Engineer at Sharp Labs of America (Contract)**

May 2016 - Present

Working on software & hardware testing for the Sharp Intellos A-UGV (Automated Unmanned Ground Vehicle) platform. Testing specialization includes streaming audio/video, network traffic analysis, and complex troubleshooting.

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

### **Tech Consultant with Security/Privacy Focus**

February 2015 - May 2016

Provided security assessments and implement improved security policies. 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 at Elemental Technologies (Contract)**

November 2015 - February 2016

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

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 at Intel Corporation (Contract)**

February 2011 - August 2012

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 add-on 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

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

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

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

Worked on code refactoring and optimization of the bioinformatics tool PMAP ([pmap.burnham.org](http://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

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

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## Honors and Awards

### **Intel SSG GRA (Group Recognition Award)**

Renée James, Senior VP and General Manager of SSG

November 2011

The Android team received the Intel GRA November 2011.

The GRA is the most prestigious honor that SSG bestows on individuals or teams for hard work, innovation, and dedication. It is awarded to groups who have the distinction of delivering tremendous results and contributions to SSG and Intel.

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## Languages

**English** (Native or bilingual proficiency)

**Russian** (Native or bilingual proficiency)

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