

Contact

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Top Skills

Linux
Software Quality Assurance
Test Automation

Languages

English (Native or Bilingual)
Russian (Native or Bilingual)

Certifications

IS-00003 - Radiological Emergency Management
IS-00029 - Public Information Officer Awareness
ICS-100 - Introduction to Incident Command System
ICS-200 - ICS for Single Resources and Initial Action Incident

Honors-Awards

Intel SSG GRA (Group Recognition Award)

Publications

Green Thumbs and Black Terminals:
Personal Agriculture For Geeks

Pavel Kirkovsky

Systems engineering, devops, embedded systems, hardware/
robotics, security, & QA
Seattle, Washington

Summary

I enjoy solving complex and unusual problems with a multifaceted deep dive approach. My technical skill set is broad and includes hardware design (and hardware hacking), robotics, software engineering, technical writing, and computer security.

Learning something new every day and teaching others is a lifelong passion!

In my spare time I like to restore and play vintage synthesizers & drum machines (mostly Roland gear), build electronics projects, garden, and occasionally foray into locksport (recreational lock picking).

Experience

Amazon
QA Engineer II
May 2017 - Present
Seattle, WA

Currently in the Prime Now + Fresh (aka F3) org as part of a distributed QA team working with multiple groups on test strategy planning, new feature rollouts, test automation on browser & mobile, API testing, performance/load testing, security testing, deep-dive manual testing, technical writing, and development of internal tooling for process improvement.

Earlier: part of Prime Now, working on new feature testing, overseeing deployments (including oncall rotation), test strategy, test plan review, and test automation.

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

Sharp Electronics Corporation USA

QA Engineer (Contract)

May 2016 - March 2017 (11 months)

Camas, WA

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: embedded Linux/U-Boot, shell scripting, Wireshark, JIRA, Zephyr, ONVIF compliance tools, H.264/MPEG-4 compliance tools, Windows PowerShell

Self-Employed

Information Security Consultant

February 2015 - May 2016 (1 year 4 months)

Portland, Oregon Area

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

AWS Elemental, an Amazon Web Services Company

QA Engineer (Contract)

November 2015 - February 2016 (4 months)

Portland, OR

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

eBay Inc

QA Engineer

August 2012 - February 2015 (2 years 7 months)

Portland, OR

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

Intel Corporation

QA Engineer (Contract)

February 2011 - August 2012 (1 year 7 months)

Hillsboro, OR

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.

Earlier: 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

Self-Employed

IT Consultant

July 2008 - February 2011 (2 years 8 months)

Greater San Diego Area

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

Anonymizer, Inc.

QA Engineer

May 2007 - July 2008 (1 year 3 months)

Greater San Diego Area

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

ChemDiv, Inc.

Infrastructure Administrator

January 2006 - May 2007 (1 year 5 months)

Greater San Diego Area

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

Maintained Windows domain infrastructure, 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) to replace the legacy analog PBX, creating a unified office phone system which eased collaboration and significantly reduced communication costs.

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

Sanford-Burnham Institute for Medical Research

Perl Developer

July 2005 - January 2006 (7 months)

Greater San Diego Area

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

Anadys Pharmaceuticals

IT Intern

June 2004 - August 2004 (3 months)

Greater San Diego Area

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
