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30 years of IT experience in multiple areas of computer systems, software, networks, storage, security and programming. Worked in Russia, Canada, USA, Curacao and New Zealand.

Skills

Software Development

- PHP implementation of 7 RFC and MS Open Standard SSL certificate management protocols for an internal PKI, including CMP (rfc4210), ACME (rfc8555), EST (rfc7030), OCSP (rfc6960), Certificate Store Access (rfc4387), MS-XCEP, MS-WSTEP (SOAP, WSDL). SQLite certificate store database.
- Creatica Chessgame Analyzer http://chessgameanalyzer.creatica.org/ in C#. Chess library is re-written later in C for performance, python binding and ML programming
- Programming embedded systems such as popular wifi
 module ESP8266, GNSS u-blox M8, environmental sensors
 Bosch BME680/BME280, DHT22, Arduino boards, gyroscope,
 accelerometer and magnetometer Inven-Sense MPU-9250,
 Raspberry Pi GPIO, chronoscope and iOS apps for remote
 control. Some examples are in https://github.com/creatica-soft

- Web-based application in .NET to track the hardware inventory, customers, service calls and contracts. It included the MS SQL database design and implementation
- Web-based application in .NET to manage the resident Internet services. It included interfaces to MS SQL and Oracle databases as well as SNMP commands to activate/deactivate connections on HP/Cisco switches and view the stats
- Web site written in PHP to process online purchases of products and services (http://safetyline.ru/)
- cTrader and Interactive Broker Trader Workstation programming in C#
- C, C++, C#, Swift, PHP, VB, VBScript, JavaScript and shell scripting

Network Administration

- Large, medium and small LANs and VLANs (Network cabling, administering Cisco Catalyst/HP switches, STP, (R)PVST+, MST, DTP, VTP, Etherchannel PAgP/LACP)
- IP routing and NAT (Cisco/Open source routers and gateways, RIP, OSPF, EIGRP, BGP)
- Wireless networks (Cisco WiFi routers)
- Network AAA (Authentication, Authorization and Accounting) –
 IEEE 802.1x using RADIUS with EAP-TLS and PKI
- WAN Site-to-site VPNs using Cisco and Checkpoint appliances and software (IPsec-based)
- Remote access via VPN (Checkpoint, IPsec and SSL/TLS based)
- Software-base OVS/OVN virtual switches and networks

Network Security - Cisco ACLs, Checkpoint with IPS and Open source firewalls (pf, spf, ipfw, iptables)

- Penetration testing with Kali Linux (cracking WEP passwords, dictionary attacks on WPA, etc)
- Network tools and utilities such as ping, arp, netstat, ifconfig, nslookup, dig, tcpdump, snoop, nmap, net-snmp, network monitor, wireshark, MRTG, Cacti, Cisco IOS
- Patching vulnerabilities in software and firmware to prevent the exploits
- Change control, documentation

Computer Systems Administration

- Microsoft Windows servers, Active Directory, MS SQL,
 Exchange, IIS, ISA, SharePoint, DNS, DHCP, Cluster servers
- Most Unix and Linux servers including HP-UX, AIX, Solaris, Linux (RedHat and Debian), OpenBSD, FreeBSD
- Open Source software: Apache, NGINX, Squid web/proxy/ load balancer servers, sendmail/postfix, imap/pop3 mail servers, ISC bind DNS, DHCP, EdgeWall trac (svn and wiki), SSH, etc.
- Virtualization software including Solaris Hypervisor and Zones, VMWare (Workstation and ESX), VirtualBox, Hyper-V, Openstack private cloud, KVM, Kuberbetes, Docker, linux containers (Ixc, Ixd)
- Monitoring tools and utilities: Nagios with its numerous plugins, including some scripted by myself, OpenNMS, Cacti

Storage Administration

- NetApp NAS and EMC SAN storage appliances (F-series, Clariton and Symmetrix) as well as Sun, IBM and others RAID arrays, Brocade FC switches and FC networks
- Backup, recovery and archiving technologies, including hardware and software from Qualstar, BreeceHill, Exabyte, Quantum, CA ArcServe, Veritas Backup Exec and NetBackup, Legato NetWorker

Database Administration

MS SQL Servers, Unix and Linux postgres and MySQL.

Software Development Support

Software development tools support such as **Git**, **SVN**, **CVS**, **Bugzilla**, **Wiki**, **BB**, **Trac**, **IRC**, etc.

IT Consulting

- Technical presentations on various topics for pre-sale and postsale products and services alone or accompanied by sales representatives
- The clients include Verizon, Comcast, PMC-Sierra, Electronic Arts, Future Shop, BCAA, Stantec, Telus, MDSI, Glenayre, GVRD, CRSA, Caterpillar, Motorolla, Servier Pharmaceutics, Toyota Motor, Delphi Automotive Systems, Allied Domecq, Briggs and Stratton, Philip Morris, Mezregiongas, colleges, school districts, universities and hospitals

Excellent Documentation Skills

For examples, please see my wiki page (http://wiki.creatica.org/) or for other projects not related to IT, see building a house, building a sailboat and renovating old sailboat/cruising. The hidden URL links are under Life- Time Achievements.

Work History

Senior Enterprise Applications Specialist, timbre Digital, Auckland, New Zealand April 2017 – current

Managing Enterprise Applications for international customers. Starting as a Network Security Engineer, I was transferred to Enterprise Applications. Initially I looked after Tableau reporting, IBM Unica marketing, Strongmail mass mailing, VPI customer interactions, Moxie customer support, etc. In the last three years, I worked on

- an Openstack cloud architecture, including an automation of an installation and upgrades of Openstack cloud using linux shell scripting
- Kubernetes cluster deployment and support
- Docker image building for numerous applications
- a PHP implementation of 7 RFC and MS Open Standard SSL certificate management protocols for an internal PKI
- Linux shell scripting for an automated deployment of Data Science workloads in Kubernetes written in R and python

IT Manager, Gamesys NV, Willemstad, Curacao June 2009 - March 2016

- Configuring, upgrading, troubleshooting and monitoring for performance and security the online casino web sites http:// www.betcruise.com/ This includes:
 - Linux (CentOS)/Unix (Solaris, FreeBSD) servers operation
 - VMWare ESX cluster support

- Apache web servers administration and maintenance
- NGINX reverse proxy for load-balancing setup and support
- **ISC bind DNS servers** (primary, secondary, replication, forward and reverse zones)
- Email system support: sendmail/postfix, IMAP, Spam Assassin, ClamAV, Sieve
- Nagios, Cacti for performance and availability monitoring
- Cisco/HP switches for Layer 2 security, redundancy and performance
- Checkpoint appliances with IPS for preventing and mitigating the attacks and exploits
- VRRP routing for redundancy
- Software developers support (Trac software, SVN, Wiki, Solaris package management)
- Developing strategic IT plans and writing documentation for licensing new online casinos in other parts of the globe.

Remote IT Consultant, Securia Ltd, Moscow, Russia April 2011 - April 2015

- Developed Apache/PHP/MySQL e-commerce project http:// www.safetyline.ru/
- Integrated the above project within the web site of Sheremetyevo International Airport (http://svo.aero/). Translated the Russian pages to English
- Connected credit card processing via Sberbank using Web services, SOAP, WSDL, WSSE

Automated MS Excel worksheets in Visual Basic

Senior Systems Administrator, Hiteco Ltd (aka Softals Ltd), Moscow, Russia June 2008 – March 2009

- Systems and network administration of software development company
- User administration and support for 50 people
- Nagios monitoring of 30 Solaris and Linux servers
- Security administration: Cisco, Checkpoint, Solaris, FreeBSD and Linux firewalls, Kerberos + NIS, SSH, SSL

IT Manager, Invidi Technologies Corp, Edmonton, Canada; Princeton, USA March 2005 - March 2009

- Starting as a senior systems and network administrator for a medium size software development company (http:// www.invidi.com/), I was promoted to IT manager
- Solaris on Sun servers, Linux (Fedora), OpenBSD, MS
 Windows servers, including Exchange, Active Directory
- Network administration with Cisco/HP switches, routers, WiFi, Checkpoint firewalls
- DevOps support: CVS, SVN, wiki, Bugzilla, IRC
- Supervised a junior systems administrator
- Supported 50 users in 4 locations

Senior Network Administrator, University of Alberta, Edmonton, Canada September 2003 - February 2005

- Monitored and troubleshooted large local area network of few university residences consisted of hundreds of switches and tens of firewalls
- Administered and supported over 2,000 students and employees
- Prevented, detected and eliminated security breaches
- Closely worked with University Computer and Network Services for copyright infringement complaints, spamming, DoS attacks and other network abuses
- Created a web site for resident Internet access, which included manuals, knowledge base, email support, automated subscription, work order system, user traffic statistics and billing for overuse
- Supervised 9 junior network administrators.

Technical Lead, Zentra Computer Technologies, Vancouver/ Edmonton, Canada December 1998 - August 2003

- Started as a field service technician for storage products from NetApp, EMC, IBM, HP, Qualstar, Exabyte, Quantum and others, I grew to a technical lead who assisted sales representatives in project management
- Created web-based application to help manage the inventory and track customers and service calls
- Gained extensive knowledge and certifications in storage area such as NAS, SAN and tape library backups

Technical Consultant, FM Technologies LLC, Moscow, Russia March 1998 - September 1998

- Computerization of Moscow offices for large overseas companies, including cabling, server and desktop configuration and software installations
- Provided system maintenance and customer support to the above mentioned companies
- Year 2000 consulting project for Philip Morris.

Field Technician, Lot Ltd, subsidiary of IBS, Moscow, Russia February 1997 - February 1998

Installation of hardware and software for 13 Mezregiongaz offices around Russia. Each office installation consisted of 2 Microsoft Windows servers, 20 Windows workstations, Microsoft BackOffice software, network cabling.

Technical Director, Computer Service HUB Ltd, Tomsk, Russia September 1996 - January 1997

- I was the owner of my small company focused on computer manufacturing, sales and support
- I provided computer training to children
- I supervised two junior technicians

Computer Technician, Ottis Ltd, Tomsk, Russia September 1994 - August 1996

I started with personal computers assembling and later was promoted to a service technician, who dealt with in and out of warranty issues, computer and peripheral equipment repairs, customer software and hardware support.

Life-Time Achievements (not related to IT)

Built a two-storey 200 sq m house in Canada

I followed the old saying that a man must plant a tree, build a house and have a child. I spent 110K and the appraisal was over half a million! 5 times return on investment!

I documented the construction on my web site: http://house.creatica.org/

Built a steel Bruce Robert Voyager 38 cutter hull

After I finished the house, I built a sailboat hull of Bruce Robert's Voyager 38 from steel without any formal training in welding! The documented project can be found at http://sailboat.creatica.org/

Renovated 1974 Hallberg-Rassy 31 Monson sailboat

Being unable to finish the Voyager 38 due to family circumstances, I sold the finished hull and bought a used HR 31 Monson. I completely redid most of its systems, including electrical, plumbing, rigging, re-powering with brand new engine, electronics, etc. The project is documented at http://beruta.creatica.org/

Walked Te Araroa Trail

3,000 km from the most northern part of New Zealand Cape Reinga to the most southern part, Bluff in 17 weeks. Made 4 episode documentary film, which is available on YouTube ("Following The Shadow - Te Araroa")

Education And Training Jazz Piano Musical School Diploma, Novosibirsk, Russia, May 1988

MS Diploma in Engineering Physics, Tomsk State University, Tomsk, Russia. April 1994

Microsoft Certified Systems Engineer, Microsoft, Tomsk, Russia. July 1997 Three courses of HP-UX 10.x, Hewlett Packard, Moscow, Russia. April 1998

Microsoft Certified Systems Engineer + Internet, Microsoft, Moscow, Russia. July 1998 Upgraded to Windows 2000 in 2001. IBM Professional Server Expert, IBM, Toronto, Canada. June 2000

Various courses, including Netfinity Manager/IT Director **CompTIA A+ Certificate**, CompTIA, Vancouver, Canada. September 2000

Data ONTAP System Administration, Network Appliance, Las Vegas, USA. December 2000

Data ONTAP Advance System Administration and Troubleshooting, Network Appliance, Las Vegas, USA. December 2000

HP 9000 Professional, Hewlett Packard, Vancouver, Canada. December 2001

IBM AIX Administrator, IBM, Toronto, Canada. January 2002 IBM p670/p690 Professional, IBM, Toronto, Canada. January 2002 Brocade SAN training, Brocade, Calgary, Canada. January 2003

KVS Enterprise Vault training, KVS, Calgary, Canada. January 2003. Archiving software for MS Exchange server.

F5 BigIP LTM Getting Started course, online, November 2016

Cisco CCNP Routing and Switching course, online, November 2016

Cisco CCNP Security Technologies course, online, November 2016

David Silver's Reinforcement Learning ML course, online (https://www.davidsilver.uk/teaching/), November 2022

PADI Open Water Instructor, PADI, Bavaro, Dominican Republic. March 2010

IYT Master Of Yacht 200 tons, IYT, St. Martin. May 2011

Interests and Hobbies

Besides my interests in IT, physics, cosmology and genetics, I like sports such as yoga, hiking, biking, sailing, windsurfing, scuba diving and chess. I'm certified PADI Open Water Instructor and IYT Master of Yacht 200 tons. I crossed the Atlantic ocean and Mediterranean sea four times, circled Caribbean sea two times and crossed the Pacific ocean, most of the time I sailed my Hallberg-Rassy 31 Monson sloop named Beruta single handed (see my cruising blog at http://beruta.creatica.org/log.html).

My chess rating is around 1,900 ELO.

References

Reference letters are available in my LinkedIn profile: https://nz.linkedin.com/in/arkadi-poliakevitch