v. 1.5.1 EN last-modified: 30 May 2020

Artem *"Ashpool"* Zhurikhin

Developer, systems administrator, researcher
«A medium-sized creature prone to great ambition»

ashpool@xecut.net | @ashpooljh | ashpooljh

.:: ashpool@xecut~> General facts _

Year of birth	1998;
Citizenship	Russian Federation;
Native city	Astrakhan;
Residence	Moscow;
Military status	enlisted in reserve;
Marital status	not married;
Languages	ru (native), en (fluent);
Qualifications	cat. B driving license;
Willing to work on-site?	yes;
Willing to work remotely?	yes;
Willing to move?	no;
Ready for business trips?	yes;

.:: ashpool@xecut~> Skills _

Operating systems

GNU/Linux & Linux-based (primary)
I use different flavors for my PCs and servers. Especially interested in `musl`-powered, GNU-free & `systemd`-free distros (can write `systemd` units though). Current favorites are Void & Alpine. Have experience with Ubuntu, Debian, Fedora, Arch, Gentoo, Kali, OpenWRT.
OpenBSD — just a big fan, use it whenever I can for servers and highly specialized computers.
FreeRTOS — used it for embedded devices.
Windows 10 & Server 2016 — duh.

(MORE)

Orchestration & deployment	QEMU + libvirt — familiar with `virsh` and essential `qemu` tools. Docker — familiar with the tools, wrote a couple of Dockerfiles. Ansible — capable of authoring complex playbook assemblages, roles, and custom modules. Experience of coupling Ansible with `libvirt` & other deployment tools.
Primary PLs	C — capable of hardcore pure C programming. Not afraid of preprocessor tricks, (function) pointers and `errno`-style error handling. C++ — also capable of doing runtime polymorphism, template & constexpr magic, lambdas, AAA style, etc. Python — when I need to get stuff done. These are the ones I have used extensively for work and hobby projects and should have a good enough command of.
Secondary PLs	awk, Bourne Shell, PHP, JavaScript, SQL, Haskell, OCaml, Go, NASM, C#, PowerShell. These I have used sparingly, but I should be adequate with them whenever Google and StackOverflow are available.
Markup & formal languages	(X)HTML, CSS, LaTeX This CV is typeset with HTML and CSS.
Frameworks and APIs	POSIX libc — used for networking & IPC, threads, i18n. Windows API, Microsoft .NET — mostly networking, threads, GUI & weird hacks. Django, Flask, jQuery, Pelican— tried my hand at webdev. Qt5 — clicky things and data structures.
Testing frameworks	Catch, Google Test, pytest.
Build automation	Make, CMake, qmake.
Network software	I have at least some experience in using and configuring all of these: nginx, Apache, lighttpd; iptables, firewalld, awall, Open vSwitch; MariaDB, PostgreSQL; sendmail, dovecot; BIND, Unbound, dnsmasq; OpenVPN, WireGuard, Tor, I2P, MTProto Proxy, 3proxy, various tunneling & DPI evasion tools; WireShark, bettercap, aircrack-ng; nmap, Metasploit, sqlmap, various vulnerability enumeration tools; possibly other things I forgot to list. Basically, I got all it takes to setup your average web 2.0 server or network of servers, make sure it's secure & exposes the minimal possible attack surface, and make sure I don't need nobody's permission to run and access it for legitimate purposes.

(MORE)

Monitoring & data analysis	LogStash, ElasticSearch, Kibana, Zabbix — used this to monitor and visualize network health.
Editors & IDE	vim, atom, CLion, Visual Studio, QtCreator.
VCS	git, svn.
Project Management	RedMine, Taiga, Jira.
Hardware	Arduino, Raspberry PI, Milandr SoCs.

.:: ashpool@xecut~> Work experience _

Sep — Dec 2017

Moscow University of Physics and Technology:
iLab project teaching assistant.

As a part of my duties, I reviewed students' practical assignments for the course of "industrial" programming. I made sure students understood what it took to write secure, clear, reliable production-ready code and not stumble upon the dark corners of C, C++ and libc.

Mar 2019 — Dec 2019

KB NAVIS (Moscow, Russia):
technician-programmer.

I helped upgrade and maintain numerous firmware applications for embedded real-time systems involved in high-precision navigation and geolocation solutions for the military. C and FreeRTOS were my primary tools. Aside from that, I upgraded or developed from scratch several GUI and console PC programs to help test and profile such devices. For that I used C#, the .NET Framework, Qt5 and C++. One type challenges in that area was understanding, parsing and implementing binary network protocols of both standard and custom nature.

Dec 2019 — today

R-Vision (Moscow, Russia):
Threat Intelligence junior expert.

My main activity with this company so far has been developing tools for automating setup and management actions on certain hosted and on-premises security infrastructures. I use Ansible and Python to streamline the setup process, and various monitoring tools like ELK and Zabbix to gather reports and gain insights. Expertise with different sorts of operating systems and tools helps a lot.

.:: ashpool@xecut~> Education _

School

11 grades, certificate with honors.

(MORE)

Unified State Exam 2015	Mathematics: 78/100 Computer Science: 94/100 Physics: 87/100 Russian Language: 87/100
MIPT (2015 — 2016)	Department of Radio Engineering and Cybernetics, Computer Security, left for personal reasons.
MIPT (2017 — 2019)	Department of Innovation and High Technology, Applied Mathematics and Computer Science, expelled.
FU under the Government of Russian Federation (2019 — today)	Insitute of distance education, High performance computation in digital economy.

.:: ashpool@xecut~> About me _

My interest to IT and programming first manifested when I was 12. I started off with BASIC. By the time I was 14 I was using GNU/Linux as my primary OS, and at the age of about 16 I began to dig network security. Most of my skills and knowledge I picked up by finding information myself and practicing on my own, therefore I have always been putting stock in self-education. My ability to quickly and intuitively find and apply solutions to new problems I consider one of my key strengths. On the other hand, memorizing huge arrays of theoretical data disconnected from practical and interesting tasks is not what I can do efficiently.

When working with any project my priorities are simplicity, elegance and security by design. I always strive to make things expose minimal attack surface and apply the principles of least knowledge, least privilege, and zero trust. Whenever it's practical to do so without breaking the said principles, I will try to solve a bit wider class of tasks than the one I am presented with. I will try to make my code usable and re-usable, maintainable, and conformant to any standards and conventions that happen to be relevant. I will show a bit of healthy scepticism towards any newfangled frameworks and technologies overloaded with features and bugs.

As a person I consider myself to be even-tempered and serene. I easily connect and find common ground with new people, although I don't necessarily initiate contact on my own volition. When working with a team I try to find a way to balance the interests whenever there's a misunderstanding or a conflict. I work best when the environment is quiet and non-distracting.

My hobbies include playing guitar and piano. I'm an amateur chess player. I like certain types of video games, in particular rogue-like. Beating the game of NetHack (thrice) I consider to be one of my achievements.

I do not approve of online censorship and mass surveillance on behalf of governments and I will unlikely agree get involved in such things. Likewise, I'll find it hard to work for a company that implements a corporate policy of close surveillance over its employees.