Curriculum Vitae

Personal Information

First name / Surname	Tom Křížek
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GitHub	`https://github.com/tkrizek`

Work Experience

2022–present

Quality Assurance Engineer
Internet Systems Consortium (ISC)

– Running, extending and improving BIND tests.

– Maintaining, tweaking and evolving the CI environment.

– Troubleshooting BIND issues and writing code reproducing them.

– Approving product releases for delivery.

Python, C, Lua, git, DNS, Linux, Bash, AWS

2018–2022

Research Software Engineer
CZ.NIC

– Working with low-level network protocols – DNS, TLS, HTTP.

– Design & development of DNS testing and benchmarking tools.

– Development of DNS resolver & DNS-over-HTTPS functionality.

– Automation of CI testing & maintenance of 10+ servers.

– Packaging software for Linux distributions (rpm, deb).

Python, C, Lua, Rust, git, DNS, Linux, Ansible, Bash, Docker

2016–2017

Associate Software Engineer
Red Hat

– Development of identity management solution.

– Design & development of test automation framework.

– Packaging software for Linux distributions (rpm).

Python, Linux, git, Ansible, Bash, Docker, DNS, C

2015–2016

Python Developer
Technical University of Liberec

– Design & development of multi-platform desktop application.

Python, git, Linux

Education & Training

2014–2016	**Master's degree** *(cum laude)*, Information Technology *Technical University of Liberec, Czech Republic*
2011–2014	**Bachelor's degree** *(cum laude)*, Information Technology *Technical University of Liberec, Czech Republic*
2011	CCNA Exploration: Network Fundamentals *Cisco Networking Academy*
2010	IT Essentials: PC Hardware and Software *Cisco Networking Academy*

Skills & Technologies

Scripting Languages

Python	8+ years of experience
Bash	6 years of experience
Lua/LuaJIT	4 years of experience

Compiled Languages

Rust	1 year of experience
C	5 years of experience

Automation & CI

Docker	6 years of experience
Ansible	5 years of experience
Gitlab CI	4 years of experience

Other

Linux	10+ years of experience
git	10+ years of experience

Open-source contributions

Knot Resolver	*C & Lua*	`https://gitlab.nic.cz/knot/knot-resolver`
respdiff	*Python*	`https://gitlab.nic.cz/knot/respdiff`
respdiff-rs	*Rust*	`https://gitlab.nic.cz/knot/respdiff-rs`
DNS Shotgun	*Python & Lua & C*	`https://gitlab.nic.cz/knot/shotgun`
dnsjit	*C & Lua*	`https://github.com/DNS-OARC/dnsjit`
resolver-benchmarking	*Ansible & Bash*	`https://gitlab.nic.cz/knot/resolver-benchmarking`
domain	*Rust*	`https://github.com/NLnetlabs/domain`
websharecli	*Python*	`https://github.com/tomaskrizek/websharecli`
FreeIPA	*Python*	`https://pagure.io/freeipa`
Fedora	*rpm packaging*	`https://src.fedoraproject.org/user/tkrizek`
lxc-gitlab-runner	*Ansible & Bash*	`https://gitlab.nic.cz/labs/lxc-gitlab-runner`
GeoMop	*Python*	`https://github.com/GeoMop/GeoMop`
deckard	*Python*	`https://gitlab.nic.cz/knot/deckard/`

About me

I'm a backend software engineer and I enjoy working with protocols. My language of choice for rapid development and prototyping is Python, which I have been using for years.

When performance is valued over development speed, I'm not afraid to use a low-level language. I've used C in the past, but after discovering Rust, I believe it has much better tradeoff between development time and runtime performance, even tough my experience with Rust is limited.

I prefer to work with free and open-source projects. I'm a long time Linux user and I'm familiar with all the major distributions.