

# Curriculum Vitae

## Personal Information

First name / Surname	Tomáš Křížek
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GitHub	<a href="https://github.com/tomaskrizek">https://github.com/tomaskrizek</a>



## Work Experience

2018–present

### 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	<i>C &amp; Lua</i>	<a href="https://gitlab.nic.cz/knot/knot-resolver">https://gitlab.nic.cz/knot/knot-resolver</a>
respdiff	<i>Python</i>	<a href="https://gitlab.nic.cz/knot/respdiff">https://gitlab.nic.cz/knot/respdiff</a>
respdiff-rs	<i>Rust</i>	<a href="https://gitlab.nic.cz/knot/respdiff-rs">https://gitlab.nic.cz/knot/respdiff-rs</a>
DNS Shotgun	<i>Python &amp; Lua &amp; C</i>	<a href="https://gitlab.nic.cz/knot/shotgun">https://gitlab.nic.cz/knot/shotgun</a>
dnsjit	<i>C &amp; Lua</i>	<a href="https://github.com/DNS-OARC/dnsjit">https://github.com/DNS-OARC/dnsjit</a>
resolver-benchmarking	<i>Ansible &amp; Bash</i>	<a href="https://gitlab.nic.cz/knot/resolver-benchmarking">https://gitlab.nic.cz/knot/resolver-benchmarking</a>
domain	<i>Rust</i>	<a href="https://github.com/NLnetlabs/domain">https://github.com/NLnetlabs/domain</a>
websharecli	<i>Python</i>	<a href="https://github.com/tomaskrizek/websharecli">https://github.com/tomaskrizek/websharecli</a>
FreeIPA	<i>Python</i>	<a href="https://pagure.io/freeipa">https://pagure.io/freeipa</a>
Fedora	<i>rpm packaging</i>	<a href="https://src.fedoraproject.org/user/tkrizek">https://src.fedoraproject.org/user/tkrizek</a>
lxc-gitlab-runner	<i>Ansible &amp; Bash</i>	<a href="https://gitlab.nic.cz/labs/lxc-gitlab-runner">https://gitlab.nic.cz/labs/lxc-gitlab-runner</a>
GeoMop	<i>Python</i>	<a href="https://github.com/GeoMop/GeoMop">https://github.com/GeoMop/GeoMop</a>
deckard	<i>Python</i>	<a href="https://gitlab.nic.cz/knot/deckard/">https://gitlab.nic.cz/knot/deckard/</a>

## 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 though 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.