



Luca Fulchir

Curriculum Vitae

School

- 2007-2011 **Bachelor's degree in computer science**, *University of Udine*, 93/110.
Thesis on the DPWS protocol (Devices Profile for Web Service)
- 2013 **Erasmus**, *NTNU: Norwegian University of Science and Technology*, Trondheim, Norway, 5 months, courses on security, reliability and networking.
- 2013-2015 **Master's degree in computer science**, *University di Udine*, 107/110.

Master's degree thesis

- title *Fenrir: a verified protocol for federated authentication and authorization*
- description The creation of a new protocol for transport, encryption, security for federated authentication and authorization <https://fenrirproject.org>

Languages

- Italian **native**
- English **advanced** 4 months in GB, 5 months in Norway, worked daily with USA teams for 2 years

Work

- 2011 **Sysadmin**, *Systel Intl.*, Treviso.
3 months. Simplification of the internal server/network infrastructure due to downsizing of the company Worked on firewalls, tunnels, change of network operator and more.
- 2009-2016 **University**, *AsCI (student association)*, Univ.Udine.
Managed three servers, systems ranging from opensd, freebsd, linux.
2010-2012: Treasury AsCI. 2014: President AsCI
- 2010-2012 **Organizer**, *Open Source Day*, Univ.Udine, www.opensourceday.org.
2014 Yearly day dedicated to open source, organized by AsCI. Grew from about 400 people (2009) to slightly over a thousand (2014), up to 30 conferences with tracks focused on web, business and forensic analysis
- 2016-2019 **ICT Security specialist**, *Linkspirit*, Udine.
Sysadmin managing multiple Linux servers for mail, web, AD domains, monitoring...

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- 2019 **Software Engineer**, *RSTOR*, Genova.
from-scratch S3 object storage implementation
- 2019-2020 **Lead DevOps**, *RSTOR*, Genova.
Managed other 5 people and automations for almost 100 servers

Computer Skills

Operative Systems

- Linux **advanced** *Administration, daily usage. Anything like Slackware, Arch Linux, Ubuntu, Debian, Fedora, CentOS, NixOS*
- Free/OpenBSD **advanced** *Administration*
- Windows **Intermediate** *usage and AD administration*

Services and projects known (linux, *bsd)

- | | | | |
|---------------|---|---------|---|
| Mail | Postfix, Dovecot, amavisd, dkim, mailman... | Web | Apache, Nginx, php |
| Ldap | ad-hoc schemas, users | DNS | bind, dynamic zones, dnssec |
| Remote FS | smb/cifs, nfs | DB | postgresql, mysql |
| Virtulization | qemu, lxc, jails | VPN | OpenVPN, ipsec |
| IM | XMPP(Jabber) | Various | vsftp, git, ipv6, freeRadius, gitlab, nextcloud, zabbix |

Programming languages

- Rust currentl studying
- C/C++ very good knowledge, currently updating to C++17 standard
- Java good knowledge
- Python(2/3) good knowledge
- Scripting Good bash and linux standard scripting (awk, sed, grep...)
- Other Haskell, Prolog

Hobby

- Climbing bouldering or on rock

Interests

- IT Crypto, network and security in general

Projects

- libRaptorQ Forward Error Correction library, <https://fenrirproject.org/Luker/libRaptorQ>
- Fenrir Protocol for federated authentication and authorization (see thesis above) https://fenrirproject.org/Fenrir/Fenrir_Project

Extra

- o multiple small talks at conferences like ESC2016/2018, OpenSourceDay, CCC