



Ruben De Smet

Education

- 2016–2018 **Master of Science**, *Vrije Universiteit Brussel, Brussel, Engineering Science: Master computer science: multimedia.*
computer vision, image and video technology, digital speech and audio processing, cryptography and security.
- 2013–2017 **Bachelor of Science**, *Vrije Universiteit Brussel, Brussel, Engineering Science: Electronics and Information Technology, computer science.*
basic electronics, computer networks and protocols, algorithms, data structures, computer architectures
- 2006–2013 **ASO**, *Sint-Ritacollege, Kontich, Wetenschappen-Wiskunde.*

Master thesis

- Glycos an extensible, resilient and private peer-to-peer online social network
development and implementation of an abstract tool set for building performant decentralised online social networks.
- promotors prof. dr. Ann Dooms and prof. dr. Jo Pierson

Experience [references on request](#)

- 2015–now **Freelance ICT integration**, *Freelance, Brussels / Antwerp.*
General IT, implementation and integration for SMBs. I work for SMB customers, integrating network services (backup, file sharing, security) and workstations.

Freelance

- 2016–now **Tutoring secondary education**, *Freelance via "Bijleszoeker".*
Long term tutoring mathematics and physics for 5th and 6th secondary education. Tutoring C++ for 1st Bachelor.

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2015–now **Freelance Linux system administrator**, *BruWind/Vrije Universiteit Brussel*.

Deploying, testing, administrating a CentOS 7 cluster using Ansible. System monitoring. Continuous integration, complex continuous deployment of Docker based micro service architecture.

Student work

July 2015 **ETL implementation**, *Vrije Universiteit Brussel*, Brussels.

Implemented ETL software using Python 3 and SOS-Berlin JobScheduler. Loading vast amounts of windturbine sensor data into a PostgreSQL 9.4 database.

Worked on npTDMS and TDMSpp, of which the latter improves the performance of the former with a factor 5

2010–2014 **IT specialist**, *NetLogic*, Duffel.

General IT and server administration for a small company

Personal projects

2016–now **Official L^AT_EX assets for the Vrije Universiteit Brussel**.

Both beamer and article class templates for the new VUB style, compatible with most L^AT_EX distributions. <https://gitlab.com/rubdos/tealive-vub>

2014–now **TheBounty Renderer**.

A free software fork of the famous *YafaRay* raytracer, mostly working on documentation using L^AT_EX and GNU Make and optimising the Blender Exporter by porting Python 3 code to C++. I also maintain its custom (Ruby on Rails) website and forum.

2013–now **Glycos**.

Development of a private, performant, and extensible peer-to-peer online social network. Heavy use of modern cryptography (ECC-based). Prof. dr. Ann Dooms made it possible to work on this on an academic level for my master thesis together with digital privacy expert prof. dr. Jo Pierson.

Languages

Dutch Native

English Proficient

Mostly IT-related

French Conversational

Computer skills (bold items signify more expertise)

Server technologies **nginx**, Jenkins, SOS-Berlin JobScheduler, **GitLab CI**, DNS and email servers, **Ansible**

Miscellaneous LibreOffice, **L^AT_EX**, vim, GIMP, systemd, cross compiling, **Git**

Development related skills

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Programming languages **Rust**, C++17, HTML5, Bash/Shell scripting, Java 8, **Python 2/3**

Linux distributions

- Red Hat family Most of the time, my workstations consist of **Fedora**; I worked with Fedora as of version 17. On servers, I deploy **CentOS 7**. I have experience with CentOS 6
- Debian family I tend to give family and friends Ubuntu (I worked with versions 9.10 to 18.04, including on an Odroid C2). I also used Debian on PowerPC G4, Raspberry PI.
- Others I tend to like Arch Linux on my most used personal systems, although I revert to the Red Hat family for professional use.

Certifications

LPI LPIC-1 Februari 2014 (*verification on request*)

Hobbies and Interests

- Chess I teach chess to the youth of the Schaakkring Oude God in Mortsel. I participate in the interclub competition.
- Free software I strongly believe in the Free Software Philosophy; users must have the right to modify software and in general open source software is better than proprietary counterparts. I actively contribute to free software projects, especially those related to the Rust programming language.
- Linux Nine years (since 2009) of GNU/Linux-exclusive experience on my personal computers.
- Rust I believe that having concurrent programming experience in Rust makes one a better programmer. Rust teaches the user to think about ownership, and in general about code architecture.
- Cryptography I have a strong interest in cryptography and its applications. I am active on <https://crypto.stackexchange.com>. Special interest in key-exchange protocols and elliptic curve cryptography.
- Digital privacy Privacy is a human right, but is often neglected in technologies. I closely follow development of privacy enhancing tools (PETs), and I contribute to the world of PETs myself through Glycos

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