

Victor Collod

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Education

LSE (EPITA Systems Laboratory)

 Paris  2018 - 2020

Made a prototype of iPXE with BitTorrent support. Also worked on adding EFI EBC support to llvm.

EPITA (Engineering School)

 Paris  2015 - 2020

Master in Computer Science with a specialization in Image Processing and Artificial Intelligence.

Professional experience



Software Engineer at [SNCF Réseau](#)

 Paris  Nov. 2020 - Jun. 2024

Built critical parts of the [OSRD](#) open-source project (conflict detection, interlocking and signaling)



Software Engineering Intern at [NVIDIA](#)

 Santa Clara  Mar. 2020 - Sep. 2020

Contributed to CUDA GDB and other internal debugger tools, as part of the DevTools organization.



Teacher at [EPITA](#)

 Paris  Aug. 2019 - Dec. 2019, Dec. 2020

Managed two C programming projects for third year students as a teaching assistant: libstream (about buffering) and minimake (a make clone). Gave a lecture on raytracing in 2020.



Member and system administrator at [Prologin](#)

 Paris  Oct. 2015 - Mar. 2020

Running the french national computer science contest. System administrator, contributing to [SADM](#) and envlive. Occasional problem setter.



Organizer and speaker at [GConfs](#)

 Paris  Sep. 2016 - Mar. 2020

2017 and 2018 Vice-president, frequent speaker.



Software Engineering Intern at [Qarnot computing](#)

 Paris  Sep. 2018 - Dec. 2018

Dynamic deployment of network configuration and VPN meshes.



Software Engineering Intern at [Scaleway](#)

 Paris  Jul. 2017 - Aug. 2017

Cross-compilation of base system images using docker and qemu.

Personal projects

 [ipxe-bt](#)

A proof of concept BitTorrent for iPXE implementation.

 [pdfid](#)

A pdf steganography utility

nsh (School project)

An sh implementation, best in class at .

 [mdbg](#)

A tiny ptrace debugger leveraging capstone and libunwind.

 [Trish](#)

An alpha renaming proof cheating detection tool.

K (School project)

A minimal x86 kernel, featuring segmentation and basic graphics.

Interests and skills

Fields

[Networking](#)

[System programming](#)

[Distributed systems](#)

[Reverse engineering](#)

Programming

[C](#)

[Rust](#)

[Python](#)

[Kotlin](#)

[C++](#)

[Go](#)

[OCaml](#)

[Java](#)

[CUDA](#)

[x86_64](#)

Tools

[UNIX shell](#)

[Git](#)

[systemd](#)

[netfilter](#)

[iproute2](#)

[LLVM](#)

[ansible](#)

[docker](#)