

# Noé LORRET DESPRET

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## Looking for a 1 year apprenticeship

4th-year computer science student and active open-source contributor, with a strong background in Software Development and DevOps.

## Skills

**Programming:** Python, Rust, C / C++, Java, JavaScript

**DevOps:** Docker / Kubernetes, AWS, Github Actions, Git & Github

**Linux:** NixOS, Bash, Virtualization, eBPF

**Languages:** French (native), English (fluent - C1)

## Experiences

### Open-source

Jan 2025 - Today

*Maintainer & contributor*

- Maintaining 5 packages and fixed 15+ failing package builds for the **Nix package manager** (22.2k stars)
- Improved **bpfilter**'s (280+ stars) performances for large IP sets from exponential complexity to linear
- Contributed to big projects, such as **Neovim** (93k stars), **NanoMQ** (2.2k stars), **Vivify** (100+ stars), and more

**MTI France** - Paris, France

Aug 2024

*IT Engineer Intern*

- Implemented storage-optimization workflow to identify and purge unused/orphans VMDK files
- Built scripts to execute PowerShell and SQL commands in guest VMs, for repeatable pipeline operations
- Automated VMware/Veeam VM management with PowerShell

## Projects

### Quantum

<https://github.com/SkohTV/quantum>

All-in-one Discord bot managing my Discord server and Youtube channel

- Implemented in asynchronous Rust, with gRPC and channels for message passing between components
- Containerized with Docker and automatically deployed on AWS via a Github Actions pipeline

### OCL-rs

<https://github.com/ISENLabs/ocl-rs>

High-performance, fault-tolerant CDN for <https://lazy.isenlabs.fr>

- Built a Rust CDN with a REST API and multithreaded image upload, storage, and compression
- Handling over 2 million monthly requests and delivering images to 250+ users across France

### GPSgraph

[https://github.com/SkohTV/gps\\_graph](https://github.com/SkohTV/gps_graph)

Get directions to get from anywhere to anywhere, locally on your computer

- Developed a GUI in Python (tkinter) using OpenStreetMap map overlay and iPhone geolocation
- Using graphs and hashmaps, with efficient data caching, to store a few million nodes and paths

## Education

**UQAC** - Chicoutimi, Canada

Sep 2025 - Jun 2026

*Master of computer science (double diploma)*

- Concentration: Software engineering
- Related coursework: Cloud infrastructures, Advanced data structures, Multi-threading & parallelism

**ISEN** - Caen, France

Sep 2022 - Nov 2027

*Engineering degree*

- Concentration: Computer Science
- Related coursework: Low level programming (C/C++), Network and infrastructures, Full stack web development, Agile project management

## Certifications

- AWS Certified Cloud Practitioner (CLF-C02) *(in progress)*

• **GitHub Foundations**

• **Columbia: Learning AI Through Visualization**