

# Loïc Metzger

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## SUMMARY

**Software Engineer** with experience in large-scale cloud services, specialized in backend and infrastructure development. I work on designing, securing, and operating production systems, with a strong focus on reliability, automation, and problem-solving in complex environments.

## WORK EXPERIENCE

**Software Developer Object Storage** Feb 2022 — Present  
OVHcloud *Paris, France*

Backend developer in the Object Storage team, working on a large-scale S3-compatible platform with a strong focus on security, encryption, resilience, and RUN operations.

- Delivered the S3 Website feature (static website hosting).
- Improved a C microservice for dynamic load scoring (GET/PUT split, CPU & IO based).
- Migrated the event system from Beanstalkd to RabbitMQ.
- Contributed to Cold Archive (tape) storage, including billing logic and automation.
- Led and implemented security features:
  - IP whitelisting
  - Extensive automated tests for access control & bucket policies
- Worked deeply on S3 Server-Side Encryption (SSE-S3):
  - Bucket re-encryption tools
  - Cold Archive data re-encryption for HDS certification
  - Encryption metadata storage and recovery tooling
- Improved observability and RUN tooling (Python, Grafana, Redpanda deadletter topic).
- Built and automated QA and RUN workflows (Docker, MariaDB, Puppet, Prefect).

**Embedded Engineer** Mars 2021 — July 2021  
Sefam medical - Efor consultant *Nancy, France*

- Development of a non-invasive ventilation device.
- Sensorless BLDC motor control (6-step), PI regulation, C++ on STM32.

**Embedded Software Developer** Jan 2019 — Mars 2020  
Thales - Ausy consultant *Limours, France*

- Security requirements for long-range air & coastal surveillance radar systems.
- C & ADA network library modifications.
- Linux administration (CentOS) and RPM packaging.
- Golang tooling for parameter management (CSV + web UI).
- CI setup (Jenkins, Gerrit) and functional testing (Python).

**Embedded Software Developer** Feb 2017 — Dec 2018  
Safran - Ausy consultant *Massy, France*

- C++ Development of an electro-optical gyrostabilized observation systems for aircraft
- Working with the DO-178 DAL D guideline, Verification and Validation
- Test campaign using Python and Lua scripts

## EDUCATION

**Université de Haute Alsace** Mulhouse, France  
*Master Automatique et Informatique Industrielle* 2013 — 2017

**Institut universitaire de technologie de Mulhouse** Mulhouse, France  
*DUT Génie Électrique et Informatique Industrielle* 2011 — 2013

## CERTIFICATIONS

**Certificates Rust**, Human Coders ([www.humancoders.com/diplomas/b93993dc3ac2](https://www.humancoders.com/diplomas/b93993dc3ac2)) Oct 2023

**Certificates advanced Python**, Human Coders ([www.humancoders.com/diplomas/766b38ea731a](https://www.humancoders.com/diplomas/766b38ea731a)) Jun 2022

**Site Reliability Engineering (SRE) Foundation**, Devops Institute Feb 2026

## SKILLS

- **Programming Languages:** Python, Go (Golang), C/C++, Rust, Java, Bash, Puppet
- **Cloud, Storage & Backend:** S3, Object Storage, Cold Archive (tape storage), SSE-S3 (encryption), access control, bucket policies
- **Messaging & Streaming:** RabbitMQ, Redpanda, Beanstalkd
- **Infrastructure & DevOps:** Linux, Docker, NGINX, Git, Gerrit, MariaDB, SQLite, Prefect
- **Observability & Operations:** Grafana, Graylog, logging systems, monitoring, incident management (RUN, war rooms)