

Antoine Barbare

Tech Lead & Lead Architect

Lille FRANCE
30 years old - Driving licence

*Building scalable, resilient cloud solutions with a focus
on performance and reliability*

Work experience

- Jul 2024 - **Lead Architect**, *Scaleway*, Lille.
Current Writing engineering guidelines, conducting architecture reviews, resolving technical debt, and ensuring scalability across teams. I'm also working to create a Product Factory to help Scaleway product teams building and delivering new cloud products in a standard and more efficient way
- Apr 2022 - **Tech Lead**, *Scaleway*, Lille
Current In the Data & Managed Services tribe, building scalable cloud products and ensuring best engineering practices.
- **AI Inference Service**: Delivered a managed AI inference service within 3 months, supporting open-source models like Llama 3, Mistral, Qwen on NVIDIA GPUs. Designed architecture, optimized workflows, and onboarded a small team.
Tech: Golang, gRPC, NVIDIA Triton, TensorRT LLM Backend, Kubernetes, Helm, Temporal.io
 - **Managed MongoDB**: Created a scalable managed MongoDB service with automatic snapshots and multi-node deployments. Mentored the team in new technologies and deployment patterns with short deadlines.
Tech: Golang, Temporal.io, Kubernetes, MongoDB Enterprise Operator
 - **Managed Apache Spark**: Launched a managed Spark service with JupyterLab and scalable Spark cluster, achieving beta in 3 months working with an offshore team. Drafted all the specifications and coordinated agile sprints.
Tech: Golang, gRPC, Kubernetes, Helm, Temporal.io
- Apr 2018 - **Devops Engineer**, *Scaleway*, Lille
Apr 2022 In the Data & Managed Services tribe, building from scratch database products.
- **Managed SQL Databases**: Designed and implemented a managed SQL Database service (PostgreSQL, MySQL) with advanced features like vertical/horizontal scaling, high availability, and automatic backups. This service now hosts 1000's of database instances globally.
Tech: PostgreSQL (Patroni), MySQL, Python, gRPC, Docker, Consul, RabbitMQ
 - **Managed Redis Service**: Co-Designed and implemented a managed Redis clusters (standalone, HA, or sharded), collaborating with external teams to ensure scalability and adherence to best practices. Contributed to HA feature architecture.
Tech: Python, gRPC, Kubernetes, Helm, Terraform
 - **Internal Database Service**: Built an internal database solution for internal team needs with tailored deployments, including global clusters and multi availability-zone resiliency. Improved database performance, minimized downtime during migrations, and introduced automatic HA failover.
Tech: PostgreSQL (Patroni), MySQL, Docker, Ansible, HAProxy, Consul
- Feb 2017 - **Devops engineer**, *Worldline*.
Mar 2018 In charge of mutualized ELK as a Service platform based on Docker containers. Build and Run on technical infrastructures for paiement companies. Pushing containers into production. Installing, configuring and maintaining high available technical infrastructures
Tech: Elasticsearch, Logstash, Kibana, Python, Docker, Ansible, HAProxy, Consul
- Jul 2015 - Feb 2017 **Apprentice engineer**, *Worldline*, Lille, Frankfurt (DE)
- Automating build deployment of technical solutions. Datavisualization and Data Warehouse based on ELK stack and Docker containers
 - Integrated in an international team in Frankfurt. I was in charge of the operating system obsolescence on certified PCI-DSS platforms composed of OpenVZ containers.

Education

- 2014–2017 **Diplôme d'ingénieur, Informatique**, *Master in Computer Engineering in apprenticeship at Worldline*.
Université de Technologie de Compiègne, France.
- 2012–2014 **DUT Informatique**, *Two-years core studies diploma in Computer Science*.
Lens, France: First class honors.
Exchange program, 4 months at UQAM in Montréal, Canada
- 2011–2012 **Scientific Baccalaureate**, *French secondary finishing degree*.
Institut Saint Eloi, Bapaume, France: Second class honors

Languages

French *Native Speaker*
English *TOEIC 840*

Activities

Sport *Road cycling (12,000 km/year), Tennis*