

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