# Arsène Fougerouse
## DevOps engineer

DevOps Engineer focused on Semantic Platforms and Knowledge Graphs for European research initiatives. Combines cloud-native architecture expertise with AI and ontology technologies to build impactful data management solutions for research communities

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24 years old
Montpellier, France
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**Tools & Tech**

Kubernetes
OpenStack
Terraform
Docker
GCP
Github Actions
GitLab CI

**Programming**

TypeScript
GO
Python
Rust

**Semantic Tech.**

GraphDB
RDF/SHACL
Knowledge Graphs
Ontologies

**Languages**

French (native)
English (fluent)
German

**Hobbies**

DJing
Diving
Books and movies

GridexX

GridexX

arsene-fougerouse

gridexx.fr

## Work experience

### DevOps Engineer   @ e-Sciences Data Factory   January 2025 - PRESENT
*Montpellier, France*

- Project Manager for LUMEN project, leading 20+ team development of FAIR Semantic platform using OpenShift, microservices, and Knowledge Graphs
- DevOps Lead implementing CI/CD (GitLab), Infrastructure as Code (Terraform), and observability stack (OpenTelemetry, Grafana) for cloud-native research applications
- Microservices Architect designing scalable platforms with Node.js, Kubernetes, and event-driven architecture serving European research communities

### DevOps Engineer   @ Montpellier University   October 2023 - October 2024
*Montpellier, France*

- Onboarding programs for scientist about Openstack best practices.
- Management of OpenStack infrastructure with Ansible and Terraform.
- Development and deployment of NodeJS API.
- Deploy and update a chatbot solution in Python with Open-Web UI.

### DevOps Intern   @ XWiki   July 2023 - October 2023
*Iasi, Romania*

- Contribute to the evolution of XWiki Helm Chart
- Drive infrastructure modernization and migration to cloud environment

### Apprentice DevOps Engineer   @ R2Devops   September 2021 - July 2023
*Montpellier, France*

- Continuous amelioration CI/CD pipelines, deployment of self-managed instances and enhancing infrastructure across cloud environments.
- Split the monolithic GO backend into a scalable, event-driven microservices ecosystem, enhance the React frontend with new features.
- Lead DevRel: lives, posts, videos and interaction with the community

## Education

### DevOps Engineer Training @ Polytech Montpellier   Oct. 2021 - Oct. 2024

Developing software engineering skills for the cloud. Learning to engineer cloud native applications and operate on cloud infrastructure.

## Projects

### Faast   A Serverless runtime in Rust   January 2024

Serverless infrastructure from scratch using our own orchestrator (Lambdo) and systems (<150ms response time), built with Rust.

### Aster   A seamless and customizable metrics collector.   June 2023

Engineered a RUST-based metrics collector that transforms raw data into billable, featuring robust APIs and SDKs, automated invoice generation, and proactive alert systems for streamlined financial operations.