

Nicolas Lamirault

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Education

Mas-ter of Computer	Université de Bordeaux I , Computer Science	Bordeaux, France 2000
DEUG MASS	Université de Bordeaux II , Computer Science	Bordeaux, France 1998

Experience

Swan 🌐, Staff Site Reliability Engineer	Bordeaux, France Feb 2024 – present
Swan 🌐, Site Reliability Engineer <ul style="list-style-type: none"> • Design and operate our Cloud Platform, running on AWS using Terraform and Terra-grunt • Manage our Gitops flow using Argo projects like CD, Events and Workflows • Manage the Observability platform with Prometheus, Grafana, Loki, and Open-Telemetry • Maintain third-party softwares (Postgresql, Hashicorp Vault, ...) • Participate to On-Call rotation 	Bordeaux, France Feb 2022 – Feb 2024
Skale-5 , Cloud Consultant / SRE <ul style="list-style-type: none"> • Harmonize and unify existing CI/CD processes • Monitoring stack based on Kubernetes (GKE, EKS, AKS, ACK) using Prometheus Operator, Prometheus, Thanos, Exporters and Grafana. • Logging tools: ELK/EFK, Loki, Stackdriver • Bespoke configuration of Kustomize manifests used by Skale-5 • Manage GCP and AWS platforms using Terraform, Ansible, Packer, ... • Project templates with Cookiecutter • Infrastructure tests using Inspec • DevOps practices: SRE, on-call, incident-management, hands-on documentation, and many more 	Bordeaux, France Mar 2019 – Feb 2022
DevOps Department, Orange Application for Business , Senior Software Engineer <ul style="list-style-type: none"> • Collecting, centralizing, and visualizing client infrastructures from multiple Cloud Providers (Openstack, AWS, Azure) (Python/Golang/Kubernetes) • Tools for deploying Cloud Native Applications (Kubernetes) • API Gateway for interne services (Golang, gRPC) • Continuous Integration and Deployment using GitlabCI and Kubernetes • Setting metrics in Cloud services (Opentracing Python and Golang, Jaeger) • Messaging between services using Nats.io (Golang) • Prometheus exporters for REST and gRPC services • Prometheus exporter for vSphere (Golang) • Deployment on Kubernetes • Containers monitoring (Golang) 	Bordeaux, France Oct 2016 – Mar 2019

Infrastructure and Production Tools, Orange Application for Business, Senior Software Engineer

Bordeaux, France
July 2014 – Oct 2016

- Virtual machine management tools (VMWare / CloudStack)
- Administration Interface for the internal Cloud
- Redesigned Packaging, Integration and continuous tests (Golang / Docker)

Cloud computing Department, Multimedia Business Services, Software Engineer

Bordeaux, France
July 2012 – July 2014

- Implementation of continuous integration for the IAAS.
- Redesign of the software architecture of the IAAS (Apache CloudStack, Jersey, Flask, RabbitMQ, Python CLI, NodeJS, StatusDashboard)
- Packaging for the orchestrator of the CloudStack cloud Multimedia Business Services
- Setting up a development environment and build based on VirtualBox / Vagrant / Ansible

NFC Department, Multimedia Business Services, Software Developer

Bordeaux, France
June 2011 – July 2012

- NFC Access Control Service for Mobile NFC Service Center (UI administration, lifecycle AFSCM, cardlet, Android application)
- Development of SP TSM (Trusted Service Manager Service Provider), bank certification, PCI / DSS, Mastercard

Multimedia Business Services, Software Developer

Bordeaux, France
Oct 2001 – June 2011

- Application Development SMS / MMS on behalf of Orange companies media (television, radio, internet), large accounts
- Interactive Voice Servers Development in J2EE and VoiceXML.
- Development of web applications (web shop, intranet, tools of administration).
- Architecture client / servers (RESTful, SOAP, XML-RPC)
- Implementation of agile practices within the team (pair programming, Test Driven Design)

Axialog, Software Developer

Bordeaux, France
Jan 2001 – Oct 2001

- Corporate Quality Team Thales Avionics.
- Implementation of unit tests and integration battery
- Implementation of project management tools on Unix.

Projects

portefaix [↗](#)

Cloud Native deployment platform

- [Infrastructure As Code](#) [↗](#) using Terraform (AWS, GCP, AZure, Alicloud, Scaleway, ...)
- [Helm charts](#) [↗](#) for the Portefaix project deployed on [Artifactory Hub](#) [↗](#)
- [Policies](#) [↗](#) using [Cel](#) [↗](#), [Open Policy Agent](#) [↗](#), [Kyverno](#) [↗](#), [Kubewarden](#) [↗](#) rules
- Build cloud platform using [Kubernetes Resources Model](#) [↗](#)

monitoring-mixins [↗](#)

Collection of reusable and configurable Prometheus alerts, and Grafana dashboards

Terraform modules [↗](#)

Terraform modules on several Cloud providers

OpenTelemetry lab [↗](#)

A laboratory for OpenTelemetry cloud native applications

Divona [↗](#)

Automated configuration of a personal environment using [Ansible](#) [↗](#) collections for [Linux](#) [↗](#), [OSX](#) [↗](#) and [Windows](#) [↗](#)

Skills

Programming: Go, Python, Java, Rust

Operations: AWS, GCP, Terraform, Packer, Ansible, Docker, Nomad, Consul, Vault, Prometheus, OpenTelemetry, CI/CD

Operating Systems: Daily: Linux (Arch, Debian, Ubuntu), OSX