

# Nicolas Lamirault

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## Education

- 2000 **Université de Bordeaux I**, Master of Computer in Computer Science – Bordeaux, France
- 1998 **Université de Bordeaux II**, DEUG MASS in Computer Science – Bordeaux, France

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## Experience

- Feb 2024 – present **Swan** 🔗, Staff Site Reliability Engineer – Bordeaux, France
- Feb 2022 – Feb 2024 **Swan** 🔗, Site Reliability Engineer – Bordeaux, France
- 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
- Mar 2019 – Feb 2022 **Skale-5**, Cloud Consultant / SRE – Bordeaux, France
- 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
- Oct 2016 – Mar 2019 **DevOps Department, Orange Application for Business**, Senior Software Engineer – Bordeaux, France
- 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)
- July 2014 – Oct 2016 **Infrastructure and Production Tools, Orange Application for Business**, Senior Software Engineer – Bordeaux, France
- Virtual machine management tools (VMWare / CloudStack)
  - Administration Interface for the internal Cloud

- Redesigned Packaging, Integration and continuous tests (Golang / Docker)
- July 2012 – July 2014 **Cloud computing Department, Multimedia Business Services**, Software Engineer – Bordeaux, France
- 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
- June 2011 – July 2012 **NFC Department, Multimedia Business Services**, Software Developer – Bordeaux, France
- 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
- Oct 2001 – June 2011 **Multimedia Business Services**, Software Developer – Bordeaux, France
- 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)
- Jan 2001 – Oct 2001 **Axialog**, Software Developer – Bordeaux, France
- Corporate Quality Team Thales Avionics.
  - Implementation of unit tests and integration battery
  - Implementation of project management tools on Unix.

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## 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](#)

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## 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