



## Niels Robin-Aubertin

I'm a **devops/SRE/cloud engineer** passionate about linux, decentralization and minimalism.

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### Technical skills

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**DevOps:** Terraform, Docker, Podman, Ansible, HAProxy, Traefik, Nginx, Jenkins

**System:** Linux (Ubuntu, Debian, CentOS, Gentoo), systemd, s6

**Cloud:** GCP, AWS, Azure, Openstack, Kubernetes

**Tools:** Terraform, Git, Vim, Github, Gitlab, Bitbucket, Jira, Slack

**Languages:** Python, Go, Shell (POSIX), SQL, C, PHP, Javascript, HTML, CSS

**Databases:** MySQL, MariaDB, SQLite, PostgreSQL, Elasticsearch

### Work experiences

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#### Canonical, Canada

*Oct. 2022 - Now* · Software Engineer

- Led the design and development of a suite of DNS operators for Juju, from initial requirements gathering through software and protocol specification to implementation
- Developed and maintained multiple Juju operators to deploy internal tools including Discourse and Mattermost on Kubernetes
- Automated infrastructure provisioning with Terraform for Kubernetes and OpenStack
- Contributed to a company-wide CI pipeline adopted across multiple teams

#### Stilla, France

*Apr. 2020 - Sep. 2022* · Devops engineer

- Deploy a gitlab instance for the software and hardware teams with it's associated runners on internal servers
- Push usage of the C++ package manager Conan to the software developers and deploy artifactory as a private registry
- Create linux containers and windows VMs tailored for the building and testing of the various pieces of software (including integration testing with Squish)
- Develop and deploy a license creation and management website for the production and support teams (using Django)
- Deploy an ELK stack to retrieve and analyze operational data from our products used internally
- Develop a python tool to replicate parts of the CI locally to help developer in their debugging

## **Lydia-app, France**

Nov. 2018 - June 2019 · Devops engineer

- Optimization of the MariaDB database's requests
- Replication with data anonymization from the operational cloud to GCP
- Set up of a dev and test environment for the backend devs via Docker/Python
- Access control and disposal of GCP's resources for the data-scientists
- Automated creation of test instances for the continuous deployment of the backend via Ansible
- Parallelization of the test suite leading to a 95% reduction of its duration
- Deployment of wordpress server with vsftpd and phpmyadmin

## **Ommi, France**

Oct. 2016 - April. 2018 · Lead Developer full-stack and System administrator

- Development of the frontend via Angular and of the REST API with Symfony
- Deployment of the services and administration of the Ubuntu servers
- Migration of the previous VM architecture to Docker in production leading to a cost reduction of 50%

## **Education**

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### **Télécom SudParis**

2015 - 2016 · Major in entrepreneurship

### **ENSIIE, Évry**

2012 - 2015 · Engineering degree in computer science, specialization in systems

### **Lycée Buffon en MP\*, Paris**

2009 - 2012 · Preparatory course for competitive entrance exams into engineering schools

### **Lycée Louis-le-Grand, Paris**

2007 - 2009 · Scientific baccalauréat, specialization in mathematics

## **Projects (<https://niels.fr/projects>)**

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### **Zusam** (217 ★ *on github*)

Zusam is a free and open-source way to self-host private forums for groups of friends. Composed of a server written in PHP exposing a REST API and a lightweight webapp, Zusam is extensible and easy to install. The goal is to make a stable, extensible, lightweight and user-friendly way to self-host private social groups.

### **Dockerfiles** (60 ★ *on github*)

I'm maintaining a collection of docker images that have as goal to be simple to use, lightweight and secure by default.

### **Herald**

I created a chess engine from scratch, written in python.

## **Languages**

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**French:** Native

**German:** Native

**English:** Fluent, 940/990 (TOEIC)