



<https://github.com/zaibon>



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Christophe de Carvalho

Software engineer

Education

Bachelor Degree in Computer Science

Haute Ecole de la province de Liège

2011 - 2014

Language

English - fluent

French - native

Skills

Language

Go, Python, Javascript

Devops

Terraform, CI/CD, Docker, K8S, Istio

System

GNU/Linux
Virtualization

Cloud

Google Cloud Platform

GCP certifications:

Associate Cloud Engineer
Professional Cloud Devops Engineer
Professional Cloud Security engineer

Experience

Archipel

October 2022 - Now

Senior backend engineer

Work on the development of an intelligent code provenance platform for software security.

Within this project:

- Maintenance and development of our infrastructure on Google Cloud
- Design and implementation of REST based API to power our frontend SPA
- Collaborate with data team to design and deploy a data platform.
- Ingestion of different source code management webhook event. (GitHub, Gitlab, Bitbucket)
- Creation of a GitHub application to enrich pull requests

Devoteam G Cloud

November 2021 -
Octobre 2022

Technical lead

Team lead for Flycs, a data warehouse accelerator framework on the Google Cloud platform.

Within this project:

- Management of the team working on Flycs
- Creation of a terraform landing zone to manage GCP infrastructure
- Creation of a microservice based web application using Go and Vue.js
- Automate the execution of Terraform using K8S and Cloud Build.
- Capture features and functional requirements from customers and translate them into technical requirements
- Application Support and maintenance

Devoteam G Cloud

November 2021 - Mars 2021

Python software engineer

- Design and implement a Python SDK for data engineer to help them define data pipelines using Airflow and BigQuery.
- Creation of CI/CD pipelines in Gitlab to manage automatic unit testing and creation of container images.

ThreefoldTech

July 2018 - November 2021

Software engineer

Research around how to decentralize the public cloud ecosystem. The result of this research led to the creation of the ThreefoldGrid.

Within this project:

- Management of the team working on Zero-OS.
- Conversion from an REST API driven architecture to a fully autonomous system
- Implementation of package manager system
- Implementation of the network manager which allows the creation of a fully meshed overlay network using Wireguard and Netlink Linux interface.
- Integration of the K3S Kubernetes distribution and Containerd in Zero-OS.
- Creation of a distributed storage archive library
- Design and implementation of a decentralized market system for IT capacity

GreenITGlobe

November 2014 - July 2018

Software engineer

Architecture, design and implementation of Zero-OS, a lightweight, stateless, REST API driven Linux distribution for distributed cloud.

- Management of the team working on Zero-OS.
- Contribution to Jumpscale, an automation framework for cloud system.