

# Álvaro Fernández

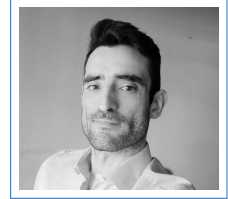
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## Experience

- 2022–present **DevOps Engineer - Independent Contractor**, *cLabs Inc.*, San Francisco, USA.
- Manage the cLabs cloud infrastructure (Azure and GCP) and migrate the cLabs-owned infrastructure (Azure and Azure AD) to Mento spin off.
  - Install and manage the cLabs deployments based on Kubernetes (GKE and AKS). Integrate those deployments with the Akeyless.io Secrets Management Platform.
  - Develop and maintain a GitOps CI/CD approach for cLabs deployments using both push-based (Terraform, GitHub Actions) and pull-based (ArgoCD) GitOps.
  - Deploy the monitoring and logging stacks based on Prometheus, Promtail, Loki and Grafana Cloud with a GitOps approach (Terraform and GitHub Actions).
  - Automate the Helm charts lifecycle at cLabs (development, testing and publishing through GitHub Actions and GCP Artifact Registry).
- 2022–2022 **Platform Engineer - Independent Contractor**, *Keyko GmbH*, Baar, Switzerland.  
Operate and maintain the Keyko.io CELO blockchain validator and the Kubernetes-based (GKE) deployments (Helm) and infrastructure (AWS, GCP, Google Workspace) through GitOps (Terraform, Github Actions and ArgoCD). Deploy and configure the monitoring and logging stacks (Prometheus and Grafana Cloud).
- 2020–2022 **Platform Engineer**, *Empathy.co*, Gijón, Spain.  
Manage the Empathy.co Kubernetes-based platform (EKS, GCP) and cloud infrastructure (AWS, GCP) through CI/CD (Github Actions, ArgoCD, Jenkins, Terraform as IaC). Deploy the monitoring and logging stacks (Prometheus, Alertmanager, Grafana, Fluent, Elasticsearch/Loki). Work on FinOps to analyze and optimize to the cloud costs at Empathy.co.
- 2018–2020 **DevOps and Software Engineer**, *StratioBD*, Pozuelo de Alarcón, Spain.  
Develop the PaaS (DC/OS - Mesos based) installation tool (Python and Ansible), covering technologies such as Vault, Etcd, Zookeeper, Consul, Prometheus or Grafana.
- 2017–2018 **Support Technician**, *StratioBD*, Pozuelo de Alarcón, Spain.  
Support and integration of StratioBD PaaS based on DC/OS (Mesos).
- 2012–2016 **Teaching Assistant**, *Norwegian University of Science and Technology (NTNU)*, Trondheim, Norway.  
25% of my Ph.D consisted of a teaching assistant position in networking-related courses.

## Education

- 2012–2017 **Ph.D in Telematics**, *Norwegian University of Science and Technology (NTNU)*, Trondheim, Norway.  
*Thesis title: Modelling and Analyzing Cost-Effective Dependability in Passive Optical Networks.*

[Link to diploma.](#) [Link to defence presentation.](#) [Link to abstract.](#)

2006–2012 **Telecommunications Engineering (M.Sc.)**, *University of Valladolid (UVa)*, Valladolid, Spain.  
Extraordinary End-of-Degree Award (“Premio extraordinario Fin de Carrera” in Spanish).  
[Link to diploma.](#)

## Certifications

Dec. 2022 Prometheus Certified Associate - PCA. Expires Dec. 2025. [Link to credential.](#)  
Sep. 2022 Certified Kubernetes Security Specialist - CKS. Expires Sep. 2024. [Link to credential.](#)  
Apr. 2022 Certified Kubernetes Administrator - CKA. Expires Apr. 2025. [Link to credential.](#)  
Feb. 2022 MongoDB Certified DBA Associate (C100DBA). No expiration. [Link to credential.](#)  
Nov. 2021 Elasticsearch Certified Engineer. Expires Nov. 2023. [Link to credential.](#)  
Jul. 2021 AWS Certified Solutions Architect - Associate. Expires Jul. 2024. [Link to credential.](#)  
Jun. 2021 Google Cloud Associate Cloud Engineer. Expires Jun. 2023. [Link to credential.](#)  
Apr. 2021 AWS Certified Cloud Practitioner. Expires Jul. 2024. [Link to credential.](#)  
Mar. 2021 Certified Kubernetes Application Developer - CKAD. Expires Mar. 2024. [Link to credential.](#)  
Feb. 2021 Hashicorp Certified: Terraform Associate. Expires Feb. 2023. [Link to credential.](#)

## Conferences

Apr. 2022 WTF is SRE - Cloud FinOps and Sustainability on Kubernetes.  
Ramiro Álvarez Fernández, César González González and Álvaro Fernández Fernández.  
[Link to talk video.](#)  
May 2022 Cloud Native Rejekts - Cloud FinOps and Sustainability on Kubernetes.  
Ramiro Álvarez Fernández, César González González and Álvaro Fernández Fernández.  
[Link to talk video.](#)

## Languages

Spanish Mother Tongue

English Advanced

## Selected Publications

Some publications resulting from my research work. A full list of my publications can be found at my LinkedIn profile. Pre-print copies can be provided upon request.

Journal Á. Fernández and N. Stol, “Economic, dissatisfaction and reputation risks of hardware and software failures in PONs”, IEEE/ACM Transactions on Networking, 2016. [Link to publication.](#)  
Conference Á. Fernández and N. Stol, “Managing software failures and capacity assignment to control interval availability in PONs”, 8th International Workshop on Resilient Networks Design and Modeling, Sweden, 2016. [Link to publication.](#)