

# Álvaro Fernández

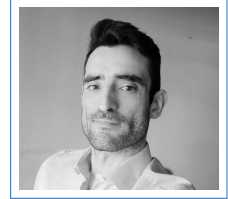
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## Experience

- 2022–present **DevOps Engineer - Independent Contractor**, *cLabs Inc.*, San Francisco, USA.
- 2022–2022 **Platform Engineer - Independent Contractor**, *Keyko GmbH*, Baar, Switzerland.
- Operate and maintain the Keyko.io CELO blockchain validator as well as set up the monitoring stack based on Grafana Cloud.
  - Install and manage the Keyko.io deployments based on Kubernetes (GKE), establish a GitOps approach for Keyko.io deployments using ArgoCD.
  - Plan and automatize the Helm charts lifecycle at Keyko.io: development, testing and publishing through GitHub Actions and GCP Artifact Registry.
  - Administer the Keyko.io cloud infrastructure (AWS, GCP) and Google Workspace.
  - Configure the CI/CD technologies at Keyko.io (Github Actions, DockerHub).
  - Deploy, configure and maintain the monitoring stack based on Prometheus, Alertmanager and Grafana in Kubernetes.
- 2020–2022 **Platform Engineer**, *Empathy.co*, Gijón, Spain.
- Manage the Empathy.co platform based on Kubernetes (EKS, GKE), the cloud infrastructure (AWS, GCP) through Terraform, and several CI/CD technologies (Github Actions, ArgoCD, Jenkins). Deploy and configure the monitoring and logging stacks (Prometheus, Alertmanager, Grafana, Fluent, Elasticsearch/Loki) in Kubernetes. Work on FinOps to analyze, optimize and bring visibility and accountability 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, Etcid, 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 courses mainly related to networking (architectures, performance and dependability).

## 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.](#)

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## Certifications

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

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## 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.](#)

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## Languages

Spanish	Mother Tongue	English	Advanced
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## 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.](#)  
Á. Fernández and N. Stol, “CAPEX and OPEX simulation study of cost-efficient protection mechanisms in passive optical networks”, *Optical Switching and Networking*, 2015. [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.](#)