Adam Barreiro Costa

adambarreiro.com

Senior Software Engineer with 10+ years of experience in backend development and DevOps. Strong background in Java and Go, with strong expertise in Kubernetes, Terraform and CI/CD pipelines in large-scale enterprise environments.

Experience

Senior Software Engineer

VMware

May 2021 – December 2025
Promoted in 2023

https://github.com/vmware/terraform-provider-vcd
https://github.com/vmware/terraform-provider-vcfa
https://github.com/vmware/go-vcloud-director

- Key contributor to the development of a cloud adapter for vRealize Automation using Java and Spring Boot, enabling VMware Cloud Director to be consumed as a standard cloud provider.

- Contributed to the development of the open source Terraform provider for VMware Cloud Director and VMware Cloud Foundation Automation (10+ million downloads, used by large enterprises such as Arvato, Telefónica, Porsche, Swisscom, and Volkswagen) using Go and the Terraform SDK.

- Enabled CI/CD in the Terraform provider for VMware Cloud Director and VMware Cloud Foundation Automation to automate environment provisioning and testing (nightly and on-demand), using Jenkins and GitHub webhooks, significantly accelerating the verification and release cycles.

- Developed the Go SDK underlying the Terraform providers, which is used by both external customers and internal VMware teams to build other product offerings, such as the Container Service Extension for VMware Cloud Director.

- Implemented a Spring Boot application as an extension of VMware Cloud Foundation Automation to flawlessly migrate virtual machines and other workloads from VMware Cloud Director.

- Worked remotely in distributed teams across multiple time zones, with a strong focus on asynchronous communication and written-first documentation.

Software / DevOps Engineer

adidas

April 2017 – March 2021
Promoted in 2020

- Established a modern CI/CD landscape in three CRM area projects, moving from VMs to Docker and Kubernetes, from SVN to Git, and from manual deployments to Jenkins.

- Modernized the engineering culture by training teams on Git, GitOps, Docker and Kubernetes best practices.

- Built from scratch the whole CI/CD landscape for Creators Club, the adidas loyalty program, following a GitOps approach, that decreased deploy time from ~3h to ~5min and accelerated time to market from 4 weeks to 1 week.

- Built the monitoring setup for Creators Club from scratch with Prometheus and Grafana. Oncall establishment with OpsGenie and automated response to outages with Jenkins.

- Enabled the successful launch of Creators Club in the mission-critical US market, while transforming a legacy monolith into modern mesh of Spring Boot microservices using an event-driven architecture with Apache Kafka, using Kubernetes instead of ad-hoc VMs.

- Participated in the migration of Creators Club database from on-premises to AWS to remove dependencies, simplify its domain and database operations, and reduce costs.

- Led the standardization of CI/CD processes within the CRM area by developing a shared Jenkins library. This initiative unified builds and deployments across all teams, significantly increasing developer velocity and reducing operational overhead by eliminating redundant configurations.

Early Career

Solutions Analyst
Java and JavaScript framework development for Caixabank. Promoted in 2016.

everis (NTT Data)
April 2015 – March 2017

Junior Consultant
E-commerce development (Oracle ATG) and web projects.

Capgemini
June 2014 – March 2015

Programmer
E-commerce development (Oracle ATG) and web projects. Worked here half-time while doing my final project at the University of Zaragoza.

Capgemini
October 2013 – May 2014

Intern
Migrated the Desigual B2B website from mySQL to OpenCMS.

Capgemini
Summer of 2012

Skills and certifications

Languages / Frameworks
Groovy, Go, Java, JavaScript, Shell scripting, Spring Boot

Cloud / DevOps
AWS, Docker, Jenkins, Kubernetes, Terraform

Architecture and best practices
Agile, DDD, Extreme Programming, GitOps, SOLID, TDD, Scrum

Certifications
- Oracle Certified Associate, Java SE 8 Programmer (2017)
- Akamai Web Performance Foundations (2018)
- Certified Kubernetes Application Developer (2021)
- Certified Kubernetes Administrator (2021)
- HashiCorp Certified: Terraform Associate (2022)

Education

BSc and MSc in Computer Science Engineering
5-year degree, 351.5 LRU credits (~281.2 ECTS credits)

University of Zaragoza
September 2008 – May 2014

BSc in Mathematics
4-year degree, 240 ECTS credits (part-time)

U.N.E.D.
September 2018 - Now

Languages

Spanish
Native

English
Full professional proficiency

Portuguese
Basic proficiency