



Martin Collado

Senior Site Reliability Engineer - Senior Python Developer

martincollado.dev



I am a seasoned Senior Backend Developer and Principal Site Reliability Engineer with extensive experience in building and optimizing high-performance systems in cloud environments. My expertise spans Python, Kubernetes, and Docker, and I have led the design and implementation of scalable infrastructures, leveraging tools like Argo CD, KEDA, and AWS to ensure reliability and efficiency. I stay at the forefront of industry advancements by working with emerging technologies such as LLMs and contributing to both open-source projects and my own consulting business, ensuring my skills remain cutting-edge and impactful.

Email: info@martincollado.dev **Location:** Santander, Cantabria, Spain

Job status: Open to opportunities **Open for freelance:** Yes

Skills

Technologies

Kubernetes	5/5	Python	5/5	Docker	5/5	Grafana	4/5	Prometheus	4/5
Terraform	4/5	FastAPI	5/5	Playwright	2/5	PostgreSQL	4/5		
shadcn/ui	3/5	Argo CD / Workflows	5/5	NATS	4/5	k6	3/5		
Keycloak	5/5	Istio	5/5	Traefik	5/5	Rust	1/5	Astro	3/5

Tools

Github Actions	Azure DevOps	Gitlab	Sentry	Datadog	SonarQube
----------------	--------------	--------	--------	---------	-----------

Platforms

Google Cloud Platform	Amazon Web Services	Microsoft Azure	Vercel
-----------------------	---------------------	-----------------	--------

Languages

Spanish (native)	English (Professional working proficiency)
------------------	--

Work



Principal Site Reliability Engineer

Acciona - IT Construction

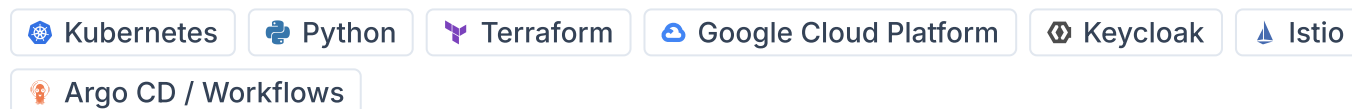
April 2022 - Current

Employment type: Full-time **Work model:** Remote

- **Led the Site Reliability Engineering team**, overseeing the design, implementation, and maintenance of infrastructure and applications.
- **Migrated on-premises applications to Google Cloud Platform (GCP)** using Kubernetes and Terraform, reducing infrastructure costs by 30% and improving scalability and reliability.

- **Designed and implemented complex architectures for new applications**, leveraging microservices and serverless technologies.
- **Authored documentation and tutorials for developers and team members**, facilitating the adoption of new features and promoting best practices.
- **Implemented GitOps practices with ArgoCD** to automate deployment and management of applications in Kubernetes clusters, reducing time to deploy new features by 70%.
- **Established Keycloak as the identity provider for all applications**, enhancing security and decreasing onboarding time for new applications by 90%.

Related skills:



Chief Technology Officer (CTO)

Fundación A. Betancourt

June 2020 - Current

Employment type: Consultant **Work model:** Remote

- **Designed and implemented a hybrid cloud infrastructure** utilizing Kubernetes and Google Cloud Platform (GCP) to host the foundation's applications and services.
- **Analyzed and optimized internal processes**, enhancing organizational efficiency and effectiveness.
- **Led the digital transformation of the foundation's services** by creating new digital products and services to reach a wider audience.
- **Digitized manual processes**, reducing task completion time by 50% and improving the quality of services provided.

Related skills:



DevOps Engineer

Acciona - Digital Innovation Seville

February 2020 - April 2022

Employment type: Full-time **Work model:** On-site

- **Migrating services from OVH and IONOS to AWS**, based on Docker, improving scalability and reliability.
- **Implementing the DevOps the culture to the team**, and making the developers move from non CI/CD to GitLab CI/CD, reducing the time to deploy new features by 70%.
- **Designing and implementing the VPCs and VPNs** to connect the on-premises network with the AWS cloud.
- **Modernizing the deployments on construction sites**, improving the reliability on complex environments.

Related skills: Python Amazon Web Services Docker Terraform Gitlab



Research and backend developer

Technical University of Madrid

September 2015 - January 2020

Employment type: Part-time **Work model:** On-site

- **Research and development of backend services** for the hydraulics and hydrology department of the School of Civil Engineering of the Universidad Politécnica de Madrid.
- **Research and development of a web application and backend services** for the harbor and coastal engineering department of the School of Civil Engineering of the Universidad Politécnica de Madrid
- **Developing solutions for mathematical models** to be processed in the backend services.
- **Designing and creating on-premise infrastructure** for the deployment of all the services running on the labs.
- **Introducing Docker and Gitlab CI/CD** to the team, reducing the time to deploy new features by 40%.

Related skills:  Python  Docker  Gitlab

Projects



MoniBuddy

Open source personal budget management app

January 2021 - Current

Role: Designer, Full-stack Developer **Category:** Web app, Open source **Team size:** 1 person

Company: None **Links:** [Repository](#), [Mockups](#), [Demo](#)

This personal project is a web application designed to help users manage their budgets by tracking income and expenses, setting financial goals, and visualizing spending habits. As the sole developer, I designed and implemented the entire application using React and TypeScript. I utilized Firebase for authentication, database, and hosting services, ensuring secure and efficient data management. The user interface was built with Material-UI, providing a responsive and user-friendly design. I integrated interactive charts to visualize spending patterns and developed a feature for generating detailed financial reports. This project is ongoing, and I continuously add new features and improvements based on user feedback.

Related skills:  Docker



UserBoard

Real-time data visualization dashboard for internal use at Meta

September 2021 - March 2022

Role: Lead Frontend Developer **Category:** Web app **Team size:** 12 people **Company:** Meta

This project involved developing a real-time data visualization dashboard for monitoring and analyzing user engagement metrics. My role as the Lead Frontend Developer included architecting the application using React, integrating D3.js for creating interactive charts, and implementing server-side rendering with Next.js to optimize performance. I coordinated closely with the back-end team to define efficient data fetching strategies using React Query, ensuring seamless synchronization of real-time data. Additionally, I mentored

junior developers on the team, conducted code reviews, and established coding standards to maintain high code quality.

Related skills:  Docker

References

Martin is an exceptional professional with extensive knowledge in technology, process optimization, and continuous improvement. Thanks to his expertise, we have been able to digitalize the foundation and streamline internal processes that were previously much more complicated and required a significant amount of repetitive daily work.



Alberto Bornstein

Director at Fundación A. Betancourt

We worked together in the FAB.

Achievements

Google Developer Expert in Web Technologies

Google

May 2023

Recognized as a Google Developer Expert for contributions to the web development community, including speaking at conferences, writing technical articles, and contributing to open-source projects.

Winner of Reactathon Hackathon

Reactathon

March 2019

Led a team to victory in the Reactathon hackathon by developing a real-time collaboration tool using React and WebRTC, showcasing technical excellence and teamwork under tight deadlines.

Redux Toolkit Contributor

Redux Toolkit

I actively contribute to the Redux Toolkit project by submitting pull requests, reviewing code, and helping maintain the project.

Related skills:  Docker

Education



Bachelor of Science in Information Technology

Technical University of Madrid, Spain

September 2017 - June 2022 (Discontinued)

Mode: Part-time **Specialization:** Computer Science

From a young age, I have been passionate about technology and computers. Spending countless hours playing video games and exploring the internet sparked my curiosity about how computers work and how software is developed. This enthusiasm led me to pursue a degree in Computer Science at the Technical

University of Madrid, where I acquired a solid foundation in programming, algorithms, and software engineering. During my studies, I had the opportunity to work on several projects at the Research Laboratory of Hydraulics and Hydrology, as well as the Harbors and Coastal Engineering department, where I developed software tools to optimize laboratory experiments.

Related skills:  Docker  Java

 **Bachelor of Civil Engineering**
Technical University of Madrid, Spain
September 2015 - June 2017 (Discontinued)





Mode: Part-time **Specialization:** Civil Engineering

From an early age, I have been passionate about building and creating. I spent countless hours as a child playing with LEGO bricks, constructing houses and bridges, which fueled my interest in how structures are designed and built. This passion led me to pursue a degree in Civil Engineering at the Technical University of Madrid, where I acquired a strong foundation in mathematics, physics, and engineering principles.





Related skills:  Python  Matlab

Favorites







Books I read

-  Domain-Driven Design: Tackling Complexity in the Heart of Software — Eric Evans
-  Grokking Simplicity: Taming complex software with functional thinking — Eric Normand
-  Learning JavaScript Design Patterns: A JavaScript and React Developer's Guide — Addy Osmani
-  The Pragmatic Programmer: From Journeyman to Master — Andy Hunt, Dave Thomas








Articles I come back to

-  Client-Side Architecture Basics — Khalil Stemmler khalilstemmler.com
-  Building future facing frontend architectures — Frontend Mastery frontendmastery.com
-  Practical React Query — Dominik Dorfmeister tkdodo.eu
-  The Least Worst Architecture — Maxi Ferreira frontendatscale.com

People I learn from

-  Addy Osmani — Google Chrome Engineering leader
-  Anthony Fu — Open sourceror working at NuxtLabs
-  Dan Abramov — React core team member
-  Josh W. Comeau — Indie hacker and educator
-  Kent C. Dodds — Teacher and courses author
-  Lee Robinson — VP of Product at Vercel

Interests

-  3D Printing
-  Bodyboard
-  Surf
-  Drones
-  Electronics
-  Photography
-  Squba Diving

I hereby give consent for my personal data included in my application to be processed for the purposes of the recruitment process.