

Diogo Barros

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SUMMARY

- Skilled DevOps Engineer and Software Developer with 2 years of experience in cloud infrastructure, automation, and full-stack development.
- Expertise in deploying and managing Kubernetes clusters using Ansible and manifest files, automating infrastructure with Terraform, and implementing CI/CD pipelines with GitHub Actions.
- Strong background in AWS (EC2, S3, IAM) with a focus on infrastructure automation, including Terraform-based provisioning of S3 buckets with versioning and IAM user management.
- Proven ability to optimize cloud infrastructure, design resilient systems with Kubernetes, and automate workflows using industry-standard tools.
- Hands-on experience in integrating external APIs, developing CRUD operations, and building scalable solutions using Python, Node.js, React.js, and C.

EXPERIENCE

Platform Engineer

2023 – Present

BeAgile

Remote

- Set up Kubernetes clusters using Ansible and configured deployment with manifest files.
- Created Terraform scripts to provision S3 buckets with versioning enabled—one for backups and another for Terraform state management.
- Developed Terraform scripts for IAM User creation, applying policies and setting up programmatic IAM users.
- Configured DNS with three records: A, MX, and SPF for service integration.
- Set up a Kubernetes cronjob to automate backups to an S3 bucket, creating the necessary secrets for Kubernetes to interact with S3.
- Implemented GitHub Actions for CI/CD pipelines, which included build and test steps, with a manual gate requiring approval from the senior engineer.
- Utilized AWS CloudWatch for monitoring EC2 instances, with auto-scaling based on CPU usage—scaling up at 80% CPU utilization and scaling down at 30%, using vertical scaling strategies.

Junior DevOps Engineer

2022 – 2023

BYSAT

Palmela, Setúbal

- Initially worked on maintenance and feature creation in C# and developed plugins for QGIS.
- Transitioned to DevOps during the setup of the Kubernetes cluster, configuring the deployment with manifest files to install all dependencies.
- Developed four services, including CRUD operations, integration with an external API (Google Maps) with additional functionalities, report generation, and an authentication system.
- Used Kubernetes Deployment and Service types to manage the services.
- Implemented CI/CD pipelines with GitHub Actions, automating deployments and improving efficiency.
- Managed on-premises infrastructure.

Junior Software Engineer

2021 – 2022

STCE

Palmela, Setúbal

- Developed and deployed a web platform, increasing efficiency by 25%.
- Built a timesheet app with React and Node.js, reducing paper use by 20%.
- Executed unit tests with Jest, improving reliability by 40%.
- Enhanced server-side logic with Node.js, speeding up data processing by 20%.

TECHNICAL SKILLS

Languages:	Node.js, React.js, JavaScript, Python, C#, SQL
Tools:	Docker, Kubernetes, GitHub Actions, Terraform, Ansible
Frameworks:	Express, Redux
Databases:	MySQL, MongoDB (familiar)
Cloud Platforms:	AWS (EC2, S3, VPC, IAM)
Monitoring & Logging:	AWS CloudWatch