

David Navarro

Senior DevOps/Platform Engineer

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EDUCATION

POLYTECHNIC UNIVERSITY OF MADRID

Bachelor's Degree in Software Engineering

GPA: 3.5

Madrid, Spain

2018-2022

SKILLS SUMMARY

- **AWS:** S3, RDS, ECS, EKS, EC2, Lambda, ECR, Systems Manager, Billing, Multi-Account setup.
 - **MICROSERVICES:** ECS, Docker, Kubernetes, Helm, Yaml, Networking, Security, Version Upgrades.
 - **CI/CD:** CircleCI, Jenkins, GH Actions, Git, Deployment libraries, Orbs, Blue Green and Canary deployments.
 - **INFRASTRUCTURE:** Terraform (IaC), Cloud Formation, Linux, Security, Ansible (CaC)
 - **MONITORING/ALERT:** DataDog, Cloudwatch, Splunk, PagerDuty, Dashboard management
 - **LANGUAGES:** Python, Bash, Ruby, Golang, Groovy, Java, JavaScript, C.
 - **DATABASES:** PostgreSQL, Aurora, Redis, MongoDB, Elasticsearch, DynamoDB, MySQL
 - **NETWORKING:** Network architecture, VPC, SSH, Certificate Management, DNS, Cloudflare, Route 53.
 - **SECURITY:** Wiz, Snyk, WAF, IAM, Vulnerability Mitigation, DDoS.
 - **AI/ML:** Claude, GH Copilot, HuggingFace, Fine-tuning, MLOps, SageMaker, Bedrock.
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WORK EXPERIENCE

AGERO **Medford, MA (Remote)**
Senior Devops Platform Engineer **Oct 2024-Current**

- Designed and optimized CI/CD pipelines using CircleCI, reducing deployment times by 40% and improving release frequency for ECS-based applications.
- Automated infrastructure tasks with Bash and Python, cutting manual operational efforts by 30+ hours per month.
- Strengthened Docker image security, reducing critical vulnerabilities by 85% through image hardening and dependency management.
- Implemented Datadog monitoring and alerting, decreasing mean time to detection (MTTD) by 50% and improving system reliability.
- Standardized deployment processes across teams with CircleCi Orbs, resulting in a 25% increase in system uptime and faster incident resolution.
- Created ephemeral environments for speeding and optimizing developers workflows by 20%
- Automated QA and testing pipelines to shift left bug detection and reduce production outages keeping platform availability at 99.997%
- Automated and practiced annual disaster recovery exercises to decrease RTO in case of outages
- Resolved 100+ security vulnerabilities identified by Wiz across different 3rd parties and application codebase

BLUE APRON **New York, NY (Remote)**
Devops/SRE Engineer **Oct 2022-Oct 2024 (2 years)**

- Administered and upgraded cross-environment Kubernetes clusters running microservices and distributed architectures in AWS (EKS), improving deployment efficiency by 30% by using common charts and Helm.
- Managed cross-account AWS infrastructure using Terraform, enhancing infrastructure stability and reducing costs by 20%.
- Designed and oversaw CI/CD pipelines with Jenkins, accelerating app deployment times by 40%.
- Supported developers by troubleshooting Jenkins pipeline failures and provisioning new infrastructure, reducing downtime and blockers by 15%.
- Monitored running apps and deployments using Datadog, Rollbar, and Snyk, resulting in a 25% decrease in security risks.
- Participated in a 24/7 on-call rotation, ensuring 99.9% uptime for company systems.

ALAMO CONSULTING

Devops Consultant Intern

- Set up Jenkins pipelines for multiple client projects, improving deployment efficiency by 25%.
- Optimized clients' AWS services and infrastructure, reducing costs by 15%.
- Decoupled monolithic apps into microservices using Docker, improving scalability and performance.
- Managed Git and GitHub repositories, enhancing workflow efficiency and collaboration.

Madrid, Spain (Hybrid)
Sept 2021-Aug 2022 (1 year)

MADRID POLYTECHNIC UNIVERSITY

Python backend developer

- Developed a Python wrapper to access RESTful API for a health research application
- Worked with professors and PhD students in developing the app
- <https://medal.ctb.upm.es/>

Madrid, Spain
Feb 2022-July 2022 (6 months)

CERTIFICATIONS

AWS CERTIFIED SOLUTIONS ARCHITECT - ASSOCIATE

- Issued by Amazon Web Services
- Date: June 2023
- Valid for 3 years
- Link: <https://www.credly.com/badges/853033b4-4f3c-46d3-85d6-38499bd8f545>

CKA: CERTIFIED KUBERNETES ADMINISTRATOR

- Issued by The Linux Foundation
- Date: February 2024
- Valid for 3 years
- Link: <https://www.credly.com/badges/8a918573-f297-495e-87cc-b690fbd5834c>

HASHICORP CERTIFIED: TERRAFORM ASSOCIATE (003)

- Issued by Hashicorp
- Date: September 2024
- Valid for 2 years
- Link: <https://www.credly.com/badges/f6fcb896-3760-498e-8571-6cfdd077a272>

PROJECTS

OPENSEARCH INSTANCE UPGRADE (AGERO)

- Upgrade opensearch instance type from r6g.xlarge to r8g.xlarge across all environments including production
- No downtime across all operations allowed as well as no loss of data, or indexes configuration
- Upgrade from GP2 storage to GP3 and coordinated with reserved instances purchase.
- Resulted in a 30% increase in performance and 10% cost reduction.

EPHEMERAL ENVIRONMENTS (AGERO)

- On demand environments that are spun upon request, directly from a Pull Request in order to test features before merging to master
- Pool of RDS instances pre-warmed and available for almost immediate use upon request
- Whole CICD configurations and automation in place to provide ephemeral environments in shortest time possible
- Ensure clean up process is cost efficient , secure and hands-off designed

CIRCLECI ORB ARCHITECTURE (AGERO)

- Design and architect the organization's orb to replace HarnessCD with a whole new deployment solution to ECS
- Implementation of yaml configuration files with values and templates for different ECS Services and Task Definitions
- Reduce current pain points and improve developer experience

“HERB” PREVIEW ENVIRONMENTS (BLUE APRON)

- Preview environments that mimic the staging behavior by residing within the staging Kubernetes cluster, allowing “herb” deployed apps to communicate to staging apps
- Allows developers to test their code in a more efficient and fast way, skipping tests if needed and observing their code in a real deployed environment
- Leverages the current pipelines and workflow to ensure an efficient integration with the rest of existing systems

FASTLY CI/CD PIPELINE WITH TERRAFORM (BLUE APRON)

- Manage Fastly’s (CDN) Services via Terraform with an automated pipeline that developers can use without previous knowledge of terraform.
- The pipeline generates a plan and applies the code in a safe way based on Pull Requests made by developers
- Allows better version control, and minimizes security risks

ELASTICACHE REDIS MIGRATION (BLUE APRON)

- Moving Redis instances from the company’s org to a different AWS Account
- Previous mapping of the company’s apps and services depending on such Redis instances
- Leverage Route53 DNS Records to manage traffic all at once
- Performed snapshots and automated migration scripts to minimize human error
- Downtime window of 1h had to and was met

GOLANG CLI INTERNAL COMMAND TOOL (BLUE APRON)

- Allows developers to log in into AWS to access resources
- Allows user friendly visualization of Kubernetes resources as well as simple management like restarts or log view
- Allows to print a list of internal and external hostnames available for the different apps
- Allows secrets and keys management leveraging AWS Parameter Store