Agustín García Flores

Principal Software Engineer

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Computer engineer passionate about DevOps culture, cloud computing, container orchestration and highly scalable systems. I started out writing GPU code for supercomputers, and today I lead the infrastructure team at Monarch, with a workflow built around coding agents.

EXPERIENCE

Monarch — Remote, US

Principal Software Engineer, Tech Lead Manager — Oct 2025 – Present

Lead the infrastructure team at Monarch, setting the technical direction for the platform the product runs on while managing the engineers who build it.

- Work agent-first: coding agents (Claude Code, Codex, Devin) write and iterate on my changes, and I push over 100 pull requests a week.
- Brought AI into operations: Rootly AI SRE triages incidents and alerts automatically, and AI takes part in reviewing and approving pull requests.
- Own the reliability, scalability and security of the cloud infrastructure behind the product.
- Hire, mentor and grow the infrastructure team, while staying hands-on in design and code.

Principal Software Engineer — Mar 2025 – Oct 2025

Joined as a principal engineer focused on infrastructure and platform work: infrastructure as code, developer experience, and the path from merge to production.

Anaconda — Remote, US

Staff Software Engineer — Mar 2024 – Mar 2025

Returned to a technical role to lead Anaconda's next-generation product development, consolidating its most popular features into a single multi-platform product.

Head of Engineering Operations — Oct 2023 – Mar 2024

Worked closely with the CTO to build a world-class engineering organization of 180 people, advising on best practices and putting in place processes to raise the speed and quality of its work.

- Introduced LinearB for visibility into engineering operations and metrics, and used it to change processes and technologies to improve developer satisfaction, engagement and output.

Staff Software Engineer — Oct 2022 – Oct 2023

Led the creation of a Platform team to support an engineering organization of more than 150 engineers.

- Built an internal developer platform on Backstage to foster collaboration and visibility, and to standardize on best practices and engineering principles.
- Integrated it with the tooling from my DevOps role, so developers could self-serve infrastructure that used to need bespoke work.
- Standardized more than 50 existing services and created over 30 new ones from templates and documentation hosted in the platform.

Senior DevOps Engineer — Jan 2021 – Oct 2022

Founding member of Anaconda's DevOps team. Led new standards that streamlined the company's infrastructure across 10 product teams.

- Designed cloud architecture that let products like the premium Python repository scale to over 30 million users, while cutting cloud spend by 30% in my first 6 months.
- Introduced workload-based dynamic scaling of Kubernetes clusters with Karpenter, running heterogeneous workloads on shared infrastructure at lower cost and complexity.
- Moved teams from weekly or monthly releases to several a day with progressive delivery on Argo Rollouts, including canary releases and A/B testing.
- Mentored junior engineers and set up the processes and ceremonies for a DevOps team of 12.

Blue Cross NC — Durham, NC

Senior DevOps Engineer — Sep 2019 – Dec 2020

Led one of the DevOps squads: CI/CD pipelines, cloud-native applications, and migrating legacy monoliths to microservices.

- Led internal initiatives including an in-house DevOps monitoring solution and infrastructure deployment as code.
- Integrated dependency vulnerability scanning into CI pipelines, and evangelized DevOps practices across teams.

Sngular

Boston, MA

Senior DevOps Engineer

Aug 2019 – Sep 2019

Led a DevOps engineering team on API governance projects.

- Implemented CI/CD pipelines with Jenkins, SonarQube and Nexus to deploy to production faster and more safely.
- Migrated mainframe infrastructure to microservices on Kubernetes in AWS.

Telefónica

Madrid, Spain

Lead DevOps Engineer

Sep 2017 – Jul 2019

Led the DevOps team in the LUCA Big Data unit.

- Designed elastic AWS infrastructure (EC2, S3, EMR, RDS, SQS, EKS, ECR) and migrated it to the equivalent Azure services.
- Cut costs by up to 40% with autoscaling that swung between hundreds of nodes and a few dozen while keeping performance under peak traffic.
- Containerized the application with Docker and ran it on EKS and AKS, tuning the clusters for performance and cost.
- Built CI/CD that deployed to production automatically on merge to the release branch.

SATEC Enhanced Services

Madrid, Spain

Senior DevOps Engineer

Nov 2016 – Sep 2017

Ran a hybrid cloud: more than 500 VMware VMs on premises, two HPC systems and legacy Solaris, plus more than 100 EC2 instances, EMR clusters and terabytes of data in S3 and Glacier.

- Designed and built an automation system from scratch with Ansible, Terraform and Python to reduce administration complexity and risk.
- Implemented CI/CD so developers got automatic unit and integration tests, with automated deployment of the resulting artifacts.

PricewaterhouseCoopers

Madrid, Spain

IT Consultant, Identity and Access Management

Mar 2016 – Nov 2016

Customized identity management platforms such as Oracle Identity Manager and SailPoint, automated tasks, and managed MySQL and Oracle 12c databases.

HyperComp Research Group

Cáceres, Spain

Researcher

Sep 2014 – Sep 2016

High-performance processing of hyperspectral satellite images on parallel, scalable systems.

- Developed GPU-accelerated versions of hyperspectral image classification algorithms, working with supercomputing centers to optimize for their architectures.

SKILLS

AI & agents: Claude Code, Codex, Devin, MCP, Rootly AI SRE

Cloud: AWS, Azure

Kubernetes: Kubernetes, Docker, Helm, Karpenter, Istio, OpenShift

IaC & GitOps: Terraform, OpenTofu, Pulumi, Crossplane, AWS CDK, CloudFormation, Ansible, ArgoCD, Argo Rollouts

CI/CD: GitHub Actions, Jenkins, Buildkite, SonarQube, Nexus

Observability: Datadog, Prometheus, Grafana, Loki

Platform: Backstage, LinearB

Languages: Python, Go, TypeScript, Java

Databases: PostgreSQL, MySQL, MongoDB, Elasticsearch, Oracle

Systems: Linux, VMware, Proxmox, Talos Linux, Home Assistant

Research: HPC, GPU computing

CERTIFICATIONS

- Certified Kubernetes Administrator (CKA)
- Certified Kubernetes Application Developer (CKAD)
- Certified Kubernetes Security Specialist (CKS)
- AWS Certified Solutions Architect – Associate
- HashiCorp Certified: Terraform Associate
- GitOps Fundamentals
- GitOps at Scale

EDUCATION

Grado en Ingeniería Informática en Ingeniería de Computadores
Universidad de Extremadura, Spain · 2010 – 2016
Equivalent to a B.S. in Computer Science. Graduated cum laude.

PROJECTS

Homelab. Run like production: Proxmox hosts prepared with Ansible, Kubernetes on Talos Linux created with OpenTofu, and ArgoCD deploying everything from git. Home Assistant is wired to coding agents through an MCP server.

agusdoestech & agusgoesracing. These sites: static Astro on Cloudflare Workers static assets, zone settings in OpenTofu, deployed by GitHub Actions.

RESEARCH

A new tool for supervised classification of satellite images available on web servers: Google Maps as a case study
A. García-Flores, A. Paz-Gallardo, A. Plaza, J. Li. SPIE Remote Sensing, High Performance Computing in Remote Sensing, Edinburgh, 2016.

Best Student Paper Award, SPIE Remote Sensing and Security + Defence, Edinburgh, Sept 2016

LANGUAGES

Spanish (native) · English (full professional)