

Conor Futro

DevOps · Cloud · Platform Engineer

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SUMMARY

DevOps and platform engineer specializing in resilient, secure, cloud-native infrastructure for mission-critical systems. Across professional roles and, more recently, self-directed work, I design the automation and architecture that let teams ship safely and often. Recent work includes production-grade systems software in Rust and a fully self-hosted, observable deployment pipeline. Depth across the Kubernetes ecosystem, IaC, CI/CD, and cloud and hybrid infrastructure.

AREAS OF EXPERTISE

Languages: Rust, Go, Python, Bash

Cloud & Infrastructure: AWS, GCP, Hybrid Cloud, Linux, Networking

Orchestration & IaC: Kubernetes, Helm, Terraform, Ansible, Vault, CI/CD, GitOps

Architecture & Practices: Cloud-Native Architecture, High-Availability & DR, Observability, DevSecOps, Test Automation

PROJECTS

[musefs](https://github.com/Sohex/musefs)

github.com/Sohex/musefs

- Designed and built a read-only FUSE filesystem in Rust (multi-crate workspace) that presents a re-tagged, reorganized music library without modifying or duplicating a single byte of the original audio.
- Drove correctness with a deep automated-testing stack: property and fuzz testing of all five format parsers, mutation testing to prove the suite actually kills bugs, and a purpose-built second FUSE filesystem (latencyfs) that injects controlled backing-store latency to exercise the serve path under slow disks and NFS.
- Engineered the release pipeline for portable distribution: static cross-compiled musl and glibc binaries across x86_64 and aarch64 with a glibc 2.17 floor, plus a serve path hardened with a blocking-read worker pool and optional kernel FUSE passthrough.

[futro.dev](https://github.com/Sohex/futro-dev)

github.com/Sohex/futro-dev

- Self-hosted static site shipped as an immutable FROM scratch container image, deployed by registry pull with image-tag rollbacks.
- Enforce a hard per-page budget in CI (under 14.5 KB brotli, home under 10 KB) so every page fits within the initial TCP congestion window, with per-page font subsetting, hash-based CSP, and link and HTML validation as gates.
- Full server-side observability with zero client-side tracking: Caddy logs to Vector to VictoriaMetrics, a Perses dashboard, and vmalet and ntfy alerting.

EXPERIENCE

Career Break: Family Caregiving

October 2020 – Present

- Stepped away from full-time work as primary caregiver for my mother through her cancer treatment and passing, and have since cared for my grandmother with Alzheimer's while preparing to return to industry.
- Stayed hands-on throughout via self-directed engineering and a production homelab (see Projects above).

Senior Cloud Engineer — BillGO Inc.

July 2020 – September 2020

Fort Collins, CO

- Recruited to lead the company's cloud-native strategy; developed a comprehensive proposal and proof-of-concept for migrating monolithic services to a containerized EKS platform.
- Authored the technical roadmap for adopting Kubernetes, including detailed plans for containerization, IaC implementation with Terraform, and CI/CD pipeline design.

Senior Engineer, DevOps & Site Reliability

March 2018 – December 2019

Delivered expert-level engineering services across both full-time and contract engagements, focusing on Kubernetes adoption, immutable infrastructure, and SRE principles.

Charter Communications — DevOps Engineer (Contract)

Aug 2019 – Dec 2019 & Mar 2018 – Jun 2018

Denver, CO

- Recruited for multiple engagements to lead critical infrastructure projects, including designing a fully immutable, high-availability platform on AWS for stateful services like MongoDB and Vault.
- Developed and scaled Kubernetes CD solutions using Jenkins and Helm, enabling developer teams to deploy services independently and reliably.

- Mentored junior engineers in cloud-native best practices, accelerating their professional development and improving team-wide consistency.

PromonTech LLC — Site Reliability & DevOps Engineer (Full-Time Employee)

Sep 2018 – Jul 2019

Denver, CO

- Promoted from SRE to DevOps Engineer in recognition of key contributions to the company's platform strategy and technical leadership.
- Championed the adoption of cloud-native technologies, prototyping a Kubernetes-based platform to demonstrate significant improvements in deployment speed and resilience.
- Eliminated risk of error by automating the previously manual process used for schema migrations of the central CQRS eventstore and the regeneration of projected tables.
- Reduced build and test wait times by up to 90% by architecting and implementing an autoscaling Jenkins deployment sensitive to both queue depth and instance congestion.

Linux System Administrator and Migration Specialist — InMotion Hosting

November 2016 – March 2018

Denver, CO

- Engineered a suite of automation tools that slashed average customer migration wait times by 95%, reducing them from three weeks to same-day delivery.
- Developed tooling to automate the detection and resolution of complex DNS and email hosting issues to streamline support and reduce time to resolution for customer contacts.
- Engineered proactive monitoring tools to automate the detection of resource contention and system faults in multi-tenant and clustered compute environments enabling resolution prior to SLA impact.