

# Oliver Hofmann

PLATFORM ENGINEER — KUBERNETES · GITOPS · INFRASTRUCTURE

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Platform engineer running a ~60-cluster Kubernetes fleet for a regulated Swiss healthcare-IT vendor — GitOps, immutable node images, and the Proxmox/Ceph layer underneath. Came up through full-stack software engineering and five years as a print production engineer before moving into infrastructure full-time.

## EXPERIENCE

### Platform Engineer — Cistec AG, Zürich

Oct 2022 – present

Kubernetes platform for Cistec's clinical information system: ~60 k3s clusters running ~3,000 ArgoCD Applications on in-house Proxmox/Ceph virtualisation.

- Migrating the fleet from central push-mode ArgoCD to a hub–spoke architecture, with manifests delivered from an OCI registry via argocd-agent.
- Develop the GitOps configuration (ArgoCD, KCL) rendering every cluster's workloads, including per-cluster sizing of the spoke ArgoCD stacks.
- Run the Proxmox/Ceph hypervisors and VM layer: automated provisioning, NUMA pinning, hugepage reservation, SR-IOV VF budgets enforced in CI, hypervisor hardening — built around fixed hardware limits rather than added capacity.
- Own the immutable Fedora CoreOS/OSTree node image (signed builds, SBOM stage in CI) and unattended node updates via an extended reboot coordinator respecting disruption budgets, Longhorn replicas and etcd quorum.
- Built the network and storage layers: fleet-wide Cilium (kube-proxy replacement, L2-announced service VIPs), in-cluster CoreDNS, and Longhorn/local-path/MinIO storage — including migrating all five MinIO tenants (30 drives, ~7.6 TB) off OpenEBS with zero data copy.
- Designed the admission-control and RBAC model: in-tree ValidatingAdmissionPolicy/CEL enforcement, tiered permissions, time-boxed break-glass access; hardened nodes with custom SELinux policy for platform workloads (in place of unconfined containers) and Tetragon runtime enforcement (file integrity, exec and mount guards).
- Introduced agentic AI tooling for Cistec's AI championship program: an internal Claude Code plugin marketplace (nine operations skills) with guard hooks blocking live cluster mutations, history rewrites and credential exposure.

**Own & maintain:** ArgoCD · Cilium · CoreDNS · Longhorn · MinIO · Harbor · Keycloak · Vault/OpenBao · GitLab & Runner · CloudNativePG · Velero · Kyverno · Tetragon · vcluster · Grafana/Mimir/Loki/Tempo · External Secrets

**Stack:** Kubernetes (k3s) · argocd-agent · KCL · Proxmox VE · Ceph · Fedora CoreOS · Ansible · Go · Nix · SR-IOV · SELinux · Claude Code

### Software Engineer — Inetum, Zürich

Oct 2021 – Oct 2022

- Maintained a platform for the Swiss Military (code and infrastructure) and its internal NetAdmin tooling.
- Built internal infrastructure from scratch: GitLab Runner, a Flatcar network-boot provisioning app, and an API frontend.

**Stack:** Golang · TypeScript · Ruby/Rails · Vue · Bash · C#

Software Engineer, Security Solutions — Kudelski Security, Zürich

Apr 2021 – Aug 2021

- Built a solution integrating security audits into the development workflow, plus a web interface to view and remediate findings.
- Stack: Golang · TypeScript · Kubernetes · Docker · Cloudflare · Auth0

Freelance Software Engineer — Zürich

Sep 2020 – Apr 2021

- Built and operated client websites on a custom CMS; picked up Kubernetes and KVM virtualisation and shipped Go side projects.

Software Engineer — Asperger AG, Zürich

May 2020 – Sep 2020

- Built a PHP/Laravel project-management backend and demo frontend, containerised with Docker and Traefik.

Software Engineer — StoryShare, Zürich

Sep 2019 – Feb 2020

- Built a Go/Gin backend (OAuth, Redis, object storage, Twilio) and continued React frontend work; moved deployment from cPanel to Docker with GitLab CI/CD.

Printing Engineer — Tamedia, Zürich

Aug 2013 – Aug 2018

- Printed and quality-controlled the daily newspaper run for German-speaking Switzerland; placed 3rd at the Swiss printing championship.

HOMELAB

- Self-hosted Kubernetes/Proxmox cluster run with the same GitOps and secrets-management discipline as production: ArgoCD-style deploys, Longhorn/MinIO storage, Vaultwarden-backed credentials.
- Home and colocated MikroTik routers with BGP and IPv6 routing, a hardened self-hosted mail server with DNS/DMARC, and a self-hosted LLM stack (Open WebUI/Ollama).
- Reproducible workstation managed through a personal Nix/home-manager flake.

EDUCATION

LANGUAGES

INTERESTS

|                                   |         |              |                                              |
|-----------------------------------|---------|--------------|----------------------------------------------|
| Cloud Engineer Boot Camp          | German  | Native       | Cycling & building bikes · Climbing · Hiking |
| Linux Foundation — 2022           | English | Fluent       |                                              |
| OCI Foundations 2021 Associate    | French  | Intermediate |                                              |
| Oracle Cloud — Dec 2021           |         |              |                                              |
| Full-Stack Web Development        |         |              |                                              |
| Propulsion Academy, Zürich — 2019 |         |              |                                              |
| Printing Engineer, EFZ            |         |              |                                              |
| Medien Form Farbe, Zürich         |         |              |                                              |
| Business School                   |         |              |                                              |
| Benedict, Zürich                  |         |              |                                              |