

Cole Wisniewski

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SUMMARY

CIT student at RIT who runs a GitOps-managed Kubernetes cluster end to end, from bare hypervisor provisioned with OpenTofu to SSO-protected endpoints. Seeking a DevOps or platform engineering co-op, Spring 2027 or later.

EDUCATION

Rochester Institute of Technology

B.S. Computing and Information Technologies, GPA 3.6

Rochester, NY

Expected 2028

Minor: Artificial Intelligence. Immersion: Cyberpolitics. Member, RITSEC (computing security club).

Coursework: System Administration I/II, Routing and Switching, Task Automation (Python), Cybersecurity, Databases.

PROJECTS

colewiz.dev Platform: GitOps Kubernetes and Infrastructure as Code

Apr 2026 – Present

k3s, Argo CD, OpenTofu, Cilium, Authentik, CloudNativePG, Prometheus

colewiz.dev

- Operate a k3s cluster (67 pods, 36 PVCs, 116-day uptime) declaratively through Argo CD app-of-apps and two ApplicationSets: 41 Applications across 33 source directories, with automated prune and self-heal on a 3-minute reconcile.
- Networking runs on Cilium with kube-proxy replacement and Hubble for flow visibility. Public traffic egresses through a Cloudflare Tunnel behind Authentik OIDC, so no inbound web ports are open.
- CloudNativePG runs five PostgreSQL clusters with WAL archiving and daily base backups to Cloudflare R2, 30-day retention. Bootstrap secrets are encrypted in Git with SOPS/age.
- Instrumented with kube-prometheus-stack, Grafana, and Alertmanager routing to phone push. Sanoid keeps 234 ZFS snapshots on the host, so recovery is Git plus snapshot plus object storage.
- Provision the layer underneath from code with OpenTofu (Proxmox VMs/LXC, Cloudflare DNS, Tunnel, R2, Zero Trust), state in R2 and tfvars encrypted with SOPS/age. Renovate opens dependency PRs; seven ADRs live in-repo.

Wardrobe: Two-Tier GPU Inference Service for Virtual Try-On

May – Aug 2026

Python, ComfyUI, CatVTON, ROCm, CUDA, systemd, Kubernetes

private repo, available on request

- Designed a two-tier inference service draining one shared job queue: a fast tier (CatVTON, on-demand load/unload on an NVIDIA node) and a quality tier (Qwen-Image-Edit via ComfyUI on an AMD 7900 XT, ROCm).
- Wrote a VRAM contention guard that polls rocm-smi and refuses to claim jobs while another process holds more than 6 GB. Out-of-memory crashes on the shared workstation GPU stopped after that.
- Evaluated IDM-VTON against CatVTON on documented quality criteria before standardizing. Workers run under systemd, queue UI behind Cloudflare Tunnel and Authentik.

TigerHub: RIT Campus App with On-Device Scrapers

Jun – Aug 2026

Flutter, Dart, golden tests

github.com/Colewiz7/tigerhub

- Built a Flutter app aggregating nine independently scraped campus sources: dining, events, building occupancy, makerspace status, athletics, and recreation hours.
- Replaced a FastAPI backend with on-device scraping rather than let a user-facing app depend on a homelab server staying up. The tradeoff, losing Web and iOS targets to CORS, is written up in the README.
- Hand-wrote a recurrence/hours resolver, a DST-correct Eastern time implementation with no timezone package, and a Turbo Stream payload decoder. 52 test files run golden tests on pinned payloads, so upstream drift fails CI.

WizSearch: Local-First Desktop Media Search

Jun 2026

Rust, Tauri 2, React, TypeScript, SQLite FTS5

github.com/Colewiz7/wizsearch

- Zero-telemetry desktop search over SQLite FTS5, API keys in the OS keychain. Every source implements one pure async trait; a purity test fails the build on direct IO, and a startup assertion rejects builds carrying an embedded credential.

EXPERIENCE

Fredonia Central School District

Fredonia, NY

IT Support Technician (Summer)

Summer 2024, Summer 2025

- Standardized imaging procedures for ChromeOS, Windows, and macOS devices, cutting per-device setup time roughly 5x ahead of the school year.
- Ran hardware and software diagnostics on failing equipment and kept the district device inventory current.
- Handled on-site network and support requests through the district ticketing system.

TECHNICAL SKILLS

Orchestration and IaC: Kubernetes (k3s), Argo CD (GitOps), Kustomize, Helm, Docker/containerd, OpenTofu/Terraform, Infrastructure as Code, CI/CD, Proxmox VE

Platform and Security: Cilium (kube-proxy replacement), Hubble, Authentik (OIDC SSO), CloudNativePG, SOPS/age, Cloudflare Zero Trust

Observability: Prometheus, Grafana, Alertmanager, node-exporter, monitoring and alerting, ZFS/Sanoid, Renovate

Languages: Python, Go, Rust, Bash, Dart, SQL, Java

Systems: Linux (Debian, Arch), Windows Server, Git, GitHub Actions, systemd, WireGuard, Cisco IOS/OSPF

ML: PyTorch, ComfyUI, Ollama, CUDA/ROCm, NVIDIA device plugin