Krzysztof **Nazarewski**

Kubernetes/Cloud Engineer · DevOps/Automation/DevEx Engineer · Python/Go/IaC Developer

Warsaw, mazowieckie, Poland

(+48) 530-019-621 | cv@kdn.im | nazarewk | nazarewk | nazarewk

Proficient with infrastructure & programming, passionate about automation & development experience.

Summary

I have 3 roughly equivalent paths of professional development.

I am striving to build highly automated, scalable and cloud-agnostic platform covering the whole software development lifecycle: starting with ergonomic local development through efficient test environments and CI/CD leading to secure, observable and highly available production. I keep exploring the Infrastructure as a Code, automation tooling, Kubernetes and Nix ecosystems to achieve those goals.

I feel great working on Developer Experience topics such as internal tooling and process automation.

I would also be happy to gradually slide back into programming-focused roles and learn a new language such as Elixir, Rust or maybe even Haskell.

Skills

Programming	Primary: Python, Go, shell/bash, Nix; Basics: JavaScript, Lua, Java, CUE; Aspiring: Rust
CI/CD	Argo CD/Workflows, Gitlab, CircleCI, Bitbucket, Luigi
Security	Vault, Netbird/Wireguard, authenticated/private infrastructure, unprivileged system services
IaC	Terraform (incl. writing providers), NixOS, GitOps
Containers	nix, docker, podman, buildkit, skopeo, buildah
Kubernetes	Talos, Rancher, k3s, EKS Helm, Kustomize, actively exploring config management improvements/alternatives
Clouds	AWS - experienced in: core workloads, IAM, multi-account, Go/Python SDKs), GCP - basics of IAM & containers, Azure - basics of IAM, core workloads and automation, Hetzner
Observability	Elasticsearch/Opensearch, OpenTelemetry, Fluentd, Prometheus, Datadog
Backend	Python: Django REST Framework, asyncio/trio, Celery, PostgreSQL, Redis
Languages	Polish, English, basic mandarin

Education

Warsaw University of Technology   *Warsaw, Poland*

B.S. in Computer Science and Software Engineering   *2011 - 2015, grad.2018*

Bachelor's Thesis - *Implementing Kubernetes cluster on diskless machines*

Experience

Personal projects

HOMELAB   *Dec 2025 - ...*

- ops: deploying Kubernetes on top of NixOS machines,
- programming: rewrote various bash tooling into a single coherent kdnctl Go program,
- automation: almost fully automated bootstrapping of new NixOS machines,
- nix: integrated reliable distributed Nix builds for aarch64-darwin & aarch64-linux on Mac Mini,
- misc: evaluated NixOS VMs on top of Android Virtualization Framework,

NetBird
SOLUTIONS ARCHITECT | TECHNICAL SUPPORT ENGINEER

Warsaw, Poland
Feb. 2025 - Nov. 2025

- Helped customers troubleshoot networking problems across variants of Linux, MacOS, Windows and firewalls,
- Analyzed customer organization's configuration and helped them design a solution that would work best for their use case,
- Set up Zammad Helpdesk with n8n integrations to better keep track of and aggregate communication channels,
- Acted as a user advocate to the team, helped identify and address various types of usability issues and inconsistencies,
- Worked out an efficient log browsing system utilizing lnav and a custom logs processor written in Go,
- Expanded and maintained product documentation,
- Used different VMs to test the product and reproduce customer issues,

Personal projects
HOMELAB

Jan 2025 - Feb. 2025

- nixos: refined a selectively-persistent NixOS setup and onboarded new and existing machines onto it,
- networking: built up NixOS-backed dual-stack router configuration with VLANs,
- virtualisation: tried out UTM on Mac Mini to run MacOS and NixOS VMs for arm64,
- misc: got a minimal Home Assistant setup running on NixOS on Raspberry Pi 4 with a few HATs,
- ops: attempted to integrate Talos Kubernetes into the new network,

Signicat
CLOUD | DevEx ENGINEER

Warsaw, Poland
Sep. 2023 - Dec. 2024

- Working in a small team of 5-8 professionals purpose-hired to assimilate infrastructure into company-wide platform after acquisition,
- Started with infrastructure best described as: too large for creators and (then) our new 4 person team, highly utilized, poorly automated, outdated, highly heterogeneous (k8s, mesos, cloud, on-prem),
- Were primarily concerned with keeping lights on while improving maintainability as much as feasible given the circumstances,
- Personally focused on automation of legacy systems and actively exploring & building understanding of company landscape to start integrating with shared GCP platform,
- In a few months we have improved it enough to be actively maintainable by 2 (rotating) people while the rest of team advances features,
- Deployed some assisting services on the GCP Cloud Run,

Personal projects
HOMELAB

June 2024 - Aug. 2024

- Worked part-time during less active summer period to jumpstart a storage/backup cluster & self-assembled router,
- Made a first attempt with a set of Raspberry Pi 4s, but resource constraints made it impossible to run Ceph,
- Built 3 NAS machines then formed them into Talos cluster,
- Added simple secret management & made repository public: nazarewk-iac/talos-configs,
- Implemented Nix-built workloads for immediate development feedback loop,
- Implemented ZFS-backed local storage with a mix of ZFS disk encryption/management scripts & OpenEBS,
- Implemented node-level Netbird VPN for remote access,
- Deployed proof of concept Ceph/Rook network storage cluster to figure out missing pieces,
- Started integrating Cilium for networking layer,
- Upgraded to IPv4+IPv6 ISP, purchased networking equipment and implemented a router on top of a NixOS module system, see the code,

Incredevo
DevOps | CLOUD ENGINEER

Warsaw, Poland
Oct. 2022 - Aug. 2023

- Outsourced part-time (100h/mo) as the only cloud engineer in client's company. Was primarily responsible for implementation from scratch and upkeep of their EKS-based AWS infrastructure,
- Started by automating and forcing the build process to be reproducible for 15 Java applications without versioning packaged into 8 containers,
- Researched, evaluated, debugged and sometimes fixed various open-source tools written primarily in Go,
- Started from zero building up AWS-based Kubernetes infrastructure automated with Terraform/Terragrunt,
- Finished with VPN-accessible private clusters with integrated cloud controllers, cluster autoscaler, telemetry, ingress, CI/CD, local development,
- Rewritten the build process to spotify/luigi for a local execution and easier handover,
- Prepared a NixOS-based EC2 instance capable of running all the tooling to be used as a last-resort when local setup breaks,

Fresha
DevOps | DevEx

Warsaw, Poland
Nov. 2021 - Oct. 2022

- Member of a team focusing on increasing development velocity through CI/CD process and developer's experience improvements,
- Successfully cut Datadog monitoring costs by a third through refining gathered data,
- Worked primarily on complete redesign and simplification of existing - organically acquired over the years - complex processes,
- The job involved identifying, measuring and debugging performance and operational issues on very large (30-60 envs, 20+ apps each, multiple deployments per hour) EKS cluster dedicated to staging environments,
- Set up new deployment and secrets management flow using: ArgoCD, External Secrets Operator and a set of Python scripts for the GitOps repository management & optimization,

BEC Poland
DevOps | CLOUD ENGINEER

Warsaw, Poland
July 2020 - Oct. 2021

- Introduced 5 man team to: Terraform, pytest and Terraform SDK,
- Introduced team to and provided guidance for custom Terraform providers implementations,
- Participated in design and implementation of company-wide Azure based cloud platform,
- Tested infrastructure with pytest and pytest-bdd (Python implementation of Behaviour Driven Development/Gherkin),
- Designed and implemented shared testing library to be used by the team and customers,
- Designed and implemented developer's environments using: Packer, Vagrant, VirtualBox, Azure DevTest Lab,

GFT Poland

KUBERNETES ADMINISTRATOR | DEVOPS | CLOUD ENGINEER

- Introduced 6-man team to Terraform and Kubernetes,
- Actively participated in designing GCP infrastructure before moving off to AWS,
- Participated in fast-paced infrastructure development in a large team (tens of cloud engineers),
- Participated in development, automation and coordination of workflow across many programming teams and projects,
- Was the only person responsible for deploying, configuring and managing pre-production Rancher 2 based Kubernetes clusters,
- Implemented a cluster reconciliation & auto-scaling loop in Python deployed to AWS Lambda,
- Automated infrastructure development workflows including mass-execution, validation and automation for Terraform,
- Achieved close to zero-downtime deployments by working with development teams,
- Integrated a few systems with Okta identity provider,
- Coped with being forced to use the most available Istio features from the start without gradual implementation one-by-one,
- Used/integrated with: OPA Gatekeeper, Datadog, Artifactory, CircleCI, GitHub, Spinnaker,

Daftcode

PROJECT CTO | PYTHON DEVELOPER | LINUX ADMINISTRATOR | DEVOPS

- Started as the most experienced backend developer on the team with some sysadmin skills, then gradually moved to full-time infrastructure administration and devops role,
- Developed a small Django backend application written by an intern into a dynamically growing project,
- Started by modernizing, redesigning and gradually reimplementing it without (user) interruptions on top of modern tooling,
- Migrated on-premise infrastructure to semi-automated environments (production and development) on top of AWS EC2,
- Streamlined deployments and in-app error gathering/reporting,
- Identified, then fixed bugs and accounting discrepancies using ELK stack data analysis,
- Achieved zero-downtime deployments,
- Implemented live performance monitoring and alerting in form of Kiosk-style dashboard at the office backed by Raspberry Pi,
- Implemented and hardened the infrastructure on top of kops-based Kubernetes cluster,

10Clouds

DJANGO / FULL-STACK DEVELOPER

- Created tests for then migrated an existing Django REST Framework & PostgreSQL tenants based SaaS from Python 2 to Python 3,
- Developed and maintained above mentioned backend and occasionally frontend
- Designed and implemented Django REST Framework based backend in another project,

JMR Technologies

LEAD PYTHON DEVELOPER

- Was primary Python developer in a company newly adopting Python for selected projects,
- Designed and implemented of Django based CRM,
- Gave occasional assistance to the Odoo team,

Freelance project

FULL-STACK SOFTWARE DEVELOPER

- Implemented and deployed Django REST Framework backed CMS/knowledge base,
- Implemented JavaScript (Dojo Toolkit 1) based desktop application (TideSDK, NW.js, then Electron) backed by aforementioned backend.

OPEN SOURCE CONTRIBUTIONS

- Go: prometheus/prom2json: implement reading metrics from stdin or file (only URLs were supported),
- Go: netbirdio/netbird VPN: fixed and tested errors with network routing,
- Go+k8s: kubectl drain improvements helping with cleanly scaling down cluster to zero,
- Go+k8s: gitops-engine/Argo CD add proper handling when etcd hiccups (eg: GC) occur,
- Go+k8s: helm/chart-testing: implementing passing of additional flags to helm command,
- Go+k8s: rook: enabled support for running on NixOS by adding NixOS-specific PATH,
- Go+tf+k8s: terraform-provider-kustomization added handling of remaining kustomize flags,
- Go+TF: terraform-provider-vault: improved handling of groups and policies assignments,
- Go+TF: created daftcode/terraform-provider-scripted as a first touch with Terraform and Go,
- Go+TF: created nazarewk-iac/terraform-provider-custom refined and properly designed implementation of above,
- Python+AWS: Nike-Inc/gimme-aws-creds: large refactor to enable using the tool in CI and as a library,
- Nix: various contributions to and packaging fixes for NixOS/nixpkgs,
- Nix+containers: devenv: enable building containers in CI using Nix's Flakes,