Ilan Joselevich

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SKILLS

- **Operating Systems:** Linux (NixOS, RHEL, Fedora)
- **Programming Languages:** Nix, Bash, Python
- **Version Control:** Git (GitHub, GitLab, Gitea)
- **Build tools and package managers:** Nix, RPM, PKGBUILD
- **CI/CD:** Hercules CI, Hydra, GitHub Actions
- **Virtualization and Containerization:** QEMU/KVM, Libvirt, NixOS Containers (systemd-nspawn)
- **Infrastructure Provisioning:** Terraform (Terranix), nixos-anywhere, disko
- **Networking:** WireGuard, Tailscale
- **Identity Management:** Kanidm

EXPERIENCE

NixOS Foundation - Summer of Nix Participant - Contracting   *2022*

- Participated in the yearly Summer of Nix train and work program which focuses on packaging NGI (Next Generation Internet) and NLnet funded software with Nix.
- Assisted other participants with creating unit tests for many different software via the NixOS VM testing framework.

Platonic.Systems - Nix Engineer - Contracting   *2022 - 2023*

- As a Nix engineer, I packaged clients' software in the following languages: Rust, Haskell and PureScript.
- Set-up a CI/CD pipeline using Hercules CI that would build the project and push its build artifacts to a Nix binary cache.
- Took part in the rewriting of the company's infrastructure running NixOS.
- Configured GitLab CI + Nix for internal projects on the self-hosted GitLab instance.

PERSONAL PROJECTS

nix-config - Personal Infra:

This is my personal infrastructure it provides the following things:

- Stateless, declarative and reproducible way of deploy to and provision new hosts.
- Various hosts of different roles (and their modular configurations) (e.g. laptop, desktop, server, CI runner).
- Identity management (Using Kanidm) with OAuth2 to the many services in this infrastructure (Nextcloud, oauth2-proxy, Grafana and more).
- CI/CD via Hercules CI and Cachix Deploy (pull) and/or manual (push) DIY script.
- Load balancing of some services.
- Secret management with Agenix.

tf-infra - Terraform-managed Infrastructure:
Terraform configurations managed with Nix using Terranix, a translation layer between between Nix (Using the NixOS module system) and HCL/JSON for use with Terraform.

- Cloudflare resources
- Hetzner Cloud resources
- Tailscale mesh VPN ACL This is all deployed in a Hercules CI effects (Continues Deployment) pipeline which stores the Terraform state in an encrypted form on the Hercules CI state storage.

NOTABLE OSS CONTRIBUTIONS

NixOS - nixpkgs:

- Over 250 pull requests to the biggest and most up-to-date cross-platform package manager repository.
- Added new packages which I maintain, occasional updates to various programs, new library functions, NixOS modules for declaratively configuring a NixOS hosts and more.
- Wrote NixOS VM tests which are unit tests that run inside QEMU VMs.
- I am one of the few people with merge access to this crucial repo with over 500K commits.

Herucles CI - Herucles CI effects:
This repo provides abstractions to the low-level interface Hercules CI provides for writing "effects" (CD jobs). Here's a list of some of the effects I wrote/contributed to:

- Cloudflare Pages deployments.
- Netlify website deployments (Shares a similar interface with the Cloudflare Pages effect for consistency).
- Cachix deploy, used for pull deployments of Nix profiles.

VOLUNTEER EXPERIENCE

NixOS Foudnation - Marketing Team
I am part of the official NixOS Foundation Marketing Team. As a member of the team I mostly focused on making the Nix Community Survey and strategizing ways of increasing Nix adoption.

israel.nix.ug - Nix Israel User Group

- I created the first Nix community in Israel
- I organized multiple Nix meetups in Israel with the purpose of increasing the adoption of Nix in Israel and creating a space where Nix users in Israel can hack together and chat about Nix.

SPOKEN LANGUAGES

- **Hebrew:** Native
- **English:** Full professional proficiency
- **Spanish:** Fluent listening and reading comprehension